WEST BUILDING OFFICE SPACE BUILD OUT
LEVEL 3 RENOVATION (2nd FLOOR)

PROJECT SCOPE

The project scope is an interior renovation to provide office space on the Level 3 balconies (second floor) located at the Convention Center West Building (9800 International Drive, Orlando, FL 32819). The office space shall be separated by interior storefront from the main atrium and concourse. The build out will comprise of private offices and modular offices (cubicles), a conference room, and breakroom will be added.

Additionally, work will include Structural, Interior Finishes, System Furniture, Fire Protection, Plumbing, Mechanical, Electrical, and Fire Alarm.

New build-out areas will maintain rated separations from existing atrium and concourse as per the contract documents.

PARCEL ID

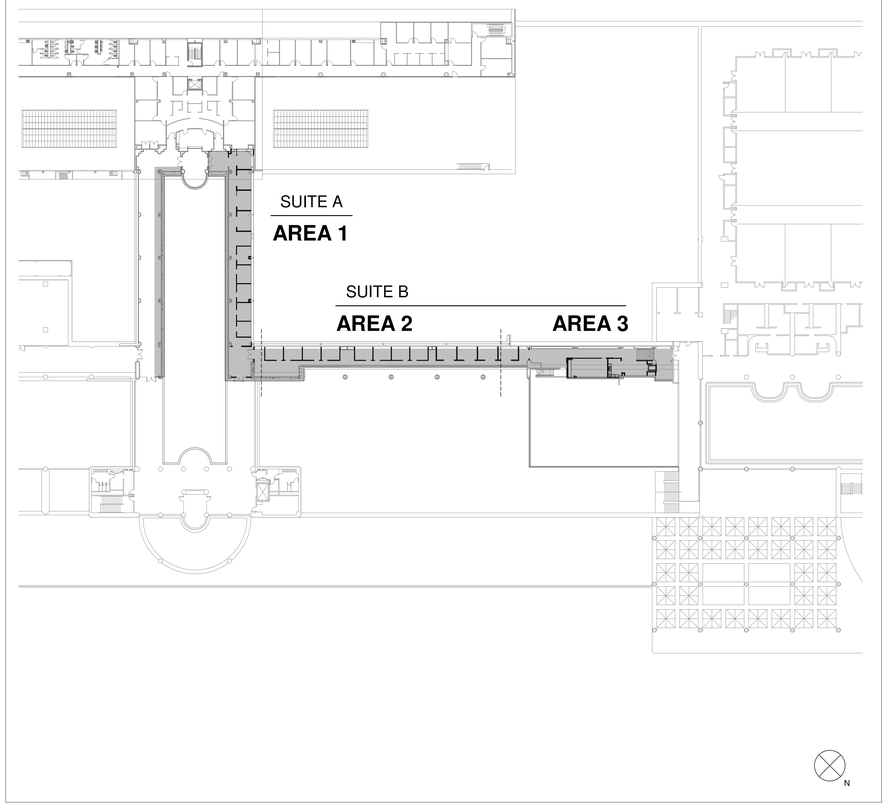
01-24-28-7150-01-0000

LEGAL DESCRIPTION

PLAZA INTERNATIONAL UNIT ONE 8/148 BLOCK A & PLAZA INTERNATIONAL UNIT 1-A 15/53 LOTS 1 & 2 & BEG AT SW COR OF LOT 2 PLAZA INTERNATIONAL UNIT 1-A 15/53 TH RUN S 87 DEG E 41.58 FT FOR POB TH RUN N 135.16 FT S 87 DEG E 63.79 FT E 658.15 FT S 135 FT W 660.72 FT N 88 DEG W 61.22 FT TO POB SEE 3656/491

VICINITY MAP

WEST CONCOURSE - LEVEL 3 (2nd FLOOR)
AREAS OF SCOPE SHOWN IN HATCH:



BID DOCUMENTS

05/16/2019

OCCC - WEST HALL D

9800 International Drive,
Orlando, FL 32819

BOARD OF COUNTY COMMISSIONERS

JERRY L. DEMINGS
County Mayor

BETSY VANDERLEY District 1 Commissioner	MARIBEL GOMEZ CORDERO District 4 Commissioner
CHRISTINE MOORE District 2 Commissioner	EMILY BONILLA District 5 Commissioner
MAYRA URIBE District 3 Commissioner	VICTORIA P. SIPLIN District 6 Commissioner

rhodes + brito
ARCHITECTS
AA0002809

PROJECT DESIGN TEAM

TECHNOLOGY
C&S COMPANIES
605 EAST ROBINSON ST, SUITE 210
ORLANDO, FL 32801
PH: 407-422-1118
CONTACT: XIANG CAO

ELECTRICAL
C&S COMPANIES
605 EAST ROBINSON ST, SUITE 210
ORLANDO, FL 32801
PH: 407-422-1118
CONTACT: XIANG CAO

MECHANICAL
C&S COMPANIES
605 EAST ROBINSON ST, SUITE 210
ORLANDO, FL 32801
PH: 407-422-1118
CONTACT: MATTHEW McQUINN

PLUMBING
C&S COMPANIES
605 EAST ROBINSON ST, SUITE 210
ORLANDO, FL 32801
PH: 407-422-1118
CONTACT: BRYN CURRIE

FIRE PROTECTION
C&S COMPANIES
605 EAST ROBINSON ST, SUITE 210
ORLANDO, FL 32801
PH: 407-422-1118
CONTACT: BRYN CURRIE

INTERIORS
RAMSKI & COMPANY
500 DELANEY AVE, SUITE 301
ORLANDO, FL 32801
PH: 407-898-6570
CONTACT: NATALIE N. CASEY

ARCHITECTURE
RHODES+BRITO ARCHITECTS, INC
605 E. ROBINSON ST, SUITE 750
ORLANDO, FL 32801
PH. (407) 648-7288
CONTACT: MAXIMIANO BRITO

STRUCTURE
ADVANCED STRUCTURAL DESIGN INC
1035 SOUTH SEMORAN BLVD., SUITE 1019
WINTER PARK, FL 32792
PH: 407-677-5836
CONTACT: JAMSHID HAKIMIAN

DATE	SUBMISSION / REVISION	NO.

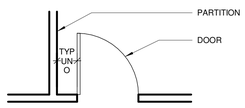
DIMENSIONING

1. WHEN A ROOM/BUILDING/OBJECT CENTERLINE IS INDICATED, ONLY ONE SIDE OF ELEMENT MAY BE DIMENSIONED

2. DOOR LOCATION

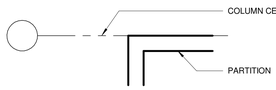
   DOORS ARE LOCATED BY ONE OF THE FOLLOWING:

   A. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE.

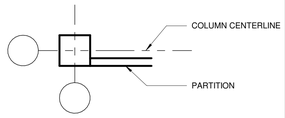


   B. AS DIMENSIONED

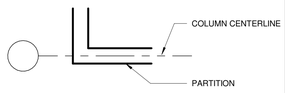
3. PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.



4. PARTITIONS WITH FINISH FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT BE DRAWN ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.



5. PARTITIONS CENTERED ON COLUMNS OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.

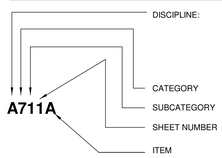


6. PARTITIONS ARE DIMENSIONED TO FACE OF STUDS, FACE OF CMU AND FACE OF BLOCK UNLESS INDICATED OTHERWISE

7. DIMENSIONS ARE INDICATED ON DRAWINGS, DO NOT SCALE DRAWINGS

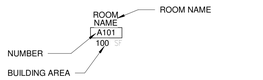
DRAWING SYMBOL LEGEND

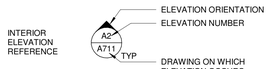
DRAWING SHEET NUMBERS

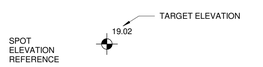


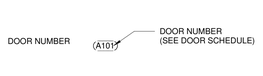
C - Civil
S - Structural
A - Architectural
M - Mechanical (HVAC)
P - Plumbing
E - Electrical
L - Landscape

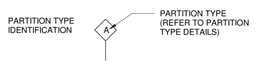
ROOM SPACE IDENTIFICATION NOTATION

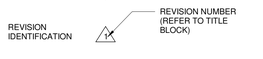


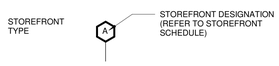


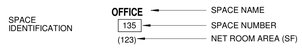


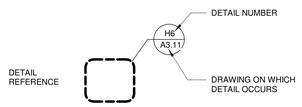


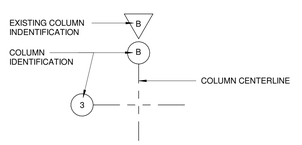


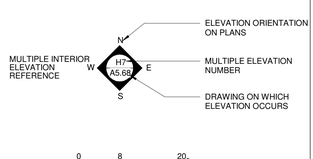




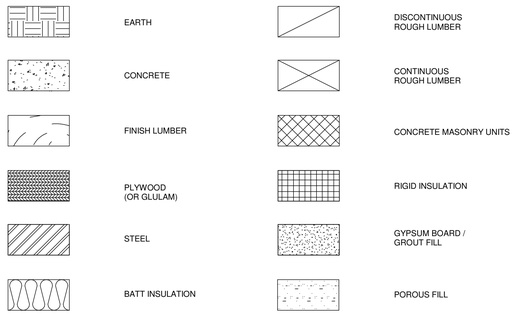




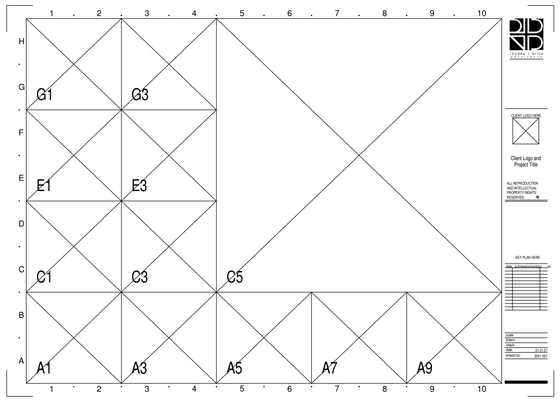




MATERIALS LEGEND



DRAWING FORMAT



EACH SHEET IS DIVIDED INTO A GRID. AN ALPHA-NUMERIC GRID COORDINATE SYSTEM IS USED TO ORGANIZE THE DRAWING TITLES

DRAWING TITLES ARE NUMBERED ACCORDING TO ITS LOCATION ON THE GRID. THE LOWER LEFT HAND CORNER GRID OF THE DRAWING IS USED AS THE IDENTIFICATION NUMBER (SEE DIAGRAM).

DRAWING INDEX

GENERAL

REV.	NO.	SHEET NAME
	G000	COVER SHEET
	G001	GENERAL INFORMATION & DRAWING INDEX
	G002	ADA & CLEARANCES
	G021	UL DEFINITIONS & ASSEMBLY - FOR INFORMATION ONLY
	G022	UL DEFINITIONS & ASSEMBLY - FOR INFORMATION ONLY
	G041	WALL TYPES / DETAILS
	G130	LIFE SAFETY PLAN

Grand total: 7

STRUCTURAL

REV.	NO.	SHEET NAME
	S001	STRUCTURAL GENERAL NOTES
	S002	STRUCTURAL GENERAL NOTES
	S131	FRAMING PLAN
	S132	FLOOR FRAMING PLAN
	S541	SECTIONS AND DETAILS
	S542	SECTIONS AND DETAILS

Grand total: 6

ARCHITECTURAL

REV.	NO.	SHEET NAME
	AD201	OVERALL DEMOLITION PLANS - STOREFRONT
	AD201.2	OVERALL DEMOLITION PLANS - OFFICES
	AD202	REFLECTED CEILING DEMOLITION PLAN
	AD202.2	REFLECTED CEILING DEMOLITION PLAN
	A131	FLOOR PLAN AREA 1- STOREFRONT
	A131.2	FLOOR PLAN AREA 1 - OFFICES
	A132	FLOOR PLAN AREA 2 / AREA 3 - STOREFRONT
	A132.2	FLOOR PLAN AREA 2 / AREA 3 - OFFICES
	A231.2	REFLECTED CEILING PLAN AREA 1
	A232.2	REFLECTED CEILING PLAN AREA 2 / AREA 3
	A301.2	SECTIONS
	A302.2	INTERIOR ELEVATIONS
	A303.2	INTERIOR ELEVATIONS
	A304.2	INTERIOR ELEVATIONS
	A321	WALL SECTIONS
	A401.2	ENLARGED PLANS
	A541	DETAILS
	A542	DETAILS
	A543	DETAILS
	A581.2	MILLWORK ELEVATIONS & DETAILS
	A601.2	DOOR SCHEDULE & DETAILS
	A602.2	STOREFRONT SCHEDULE

Grand total: 22

INTERIORS

REV.	NO.	SHEET NAME
	I134	FURNITURE PLAN - AREA 1 AND FINISH LEGEND
	I135	FURNITURE PLAN - AREA 2/AREA 3

Grand total: 2

FIRE PROTECTION

REV.	NO.	SHEET NAME
	FP100	GENERAL NOTES AND DETAILS
	FP130	SECOND FLOOR SPRINKLER LAYOUT

Grand total: 2

PLUMBING

REV.	NO.	SHEET NAME
	P100	GENERAL NOTES, LEGEND, SYMBOLS, & ABBREVIATIONS
	P130	SANITARY PLUMBING
	P131	DOMESTIC PLUMBING

Grand total: 3

MECHANICAL

REV.	NO.	SHEET NAME
	M100	LEGEND, ABBREVIATIONS AND GENERAL NOTES
	MD130	HVAC DEMOLITION PLAN
	M130	HVAC NEW WORK PLAN
	M501	DETAIL SHEET
	M601	SCHEDULES

Grand total: 5

ELECTRICAL

REV.	NO.	SHEET NAME
	E100	LEGEND, ABBREVIATIONS, & NOTES
	ED111	DEMOLITION PLAN
	E101	OVERALL FLOOR PLAN
	E111	POWER PLAN
	E121	LIGHTING PLAN
	E501	DETAIL SHEET
	E601	SCHEDULES AND ONE-LINE DIAGRAM

Grand total: 7

FIRE ALARM

REV.	NO.	SHEET NAME
	FA100	LEGEND, ABBREVIATIONS, & NOTES
	FAD111	DEMOLITION PLAN
	FA111	FIRE ALARM PLAN

Grand total: 3

LIST OF ABREVIATIONS

AB	ANCHOR BOLT	CAB	CABINET	DBL	DOUBLE	FA	FIRE ALARM	HB	HOSE BIBB	LAB	LABORATORY	N	NORTH	QT	QUARRY TILE	S	SOUTH	TPD	TOILET PAPER DISPENSER
ABV	ABOVE	CAT	CATEGORY	DEMO	DEMOLISH, DEMOLITION	FAS	FASTEN, FASTENER	HBD	HARDBOARD	LAM	LAMINATE	NA	NOT APPLICABLE	QTR	QUARTER	SC	SOLID CORE	TPTN	TOILET PARTITION
A/C	AIR CONDITIONING	CB	CAST BASIN	DEP	DEPRESSED	FB	FACE BRICK	HC	HOLLOW CORE	LAV	LAVATORY	NGVD	NATIONAL GEODETIC VERTICAL DATUM			SCHED	SCHEDULE	TR	TRANSOM
AC	ACOUSTICAL	C/C	CENTER TO CENTER	DEPT	DEPARTMENT	FBO	FURNISHED BY OTHERS	HD	HEAVY DUTY	LB	LAG BOLT					SD	STORM DRAIN	TV	TELEVISION
ACC	ACCESS	CFT	CUBIC FOOT	DF	DRINKING FOUNTAIN	FCO	FLOOR CLEAN OUT	HDR	HEADER	LBL	LABEL	NIC	NOT IN CONTRACT			SECR	SECRETARY	TYP	TYPICAL
ACPL	ACOUSTICAL PLASTER	CG	CORNER GUARD	DH	DOUBLE HUNG	FD	FLOOR DRAIN	HJT	HEAD JOINT	LF	LINEAR FOOT	NO.	NUMBER			SECT	SECTION		
ACT	ACOUSTICAL TILE	CHAM	CHAMFER	DIA	DIAGONAL	FE	FIRE EXTINGUISHER	HM	HOLLOW METAL	LH	LEFT HAND	NOM	NOMINAL	R	RISER	SECU	SECURITY		
AD	AREA DRAIN	CHT	CEILING HEIGHT	DIM	DIMENSION	FEC	FIRE EXTINGUISHER CABINET	HOR	HORIZONTAL	LL	LIVE LOAD	NTS	NOT TO SCALE	RA	RETURN AIR	SF	SQUARE FOOT		
ADD	ADDENDUM	CI	CAST IRON	DISP	DISPENSER	FF	FACTORY FINISH	HP	HIGH POINT	LS	LUMP SUM	OC	ON CENTER	RAD	RADIUS	SFGL	SAFETY GLASS		
ADDTD	ADDITIONAL	CIP	CAST-IN-PLACE	DIV DR	DIVISION DOOR	FFE	FINISHED FLOOR ELEVATION	HR	HOUR	LT	LIGHT	OD	OUTSIDE DIAMETER	RB	RUBBER BASE	SG	SHEET GLASS		
ADH	ADHESIVE	CIR	CIRCLE	DL	DEAD LOAD	FGL	FIBERGLASS	HRDW	HARDWARE	LVL	LAMINATED VENEER LUMBER	OFC	OFFICE	RCP	REFLECTED CEILING PLAN	SH	SHELVING	UC	UNDERCUT
ADJ	ADJUSTABLE	CJ	CONTROL JOINT	DN	DOWN	FH	FIRE HYDRANT	HT	HEIGHT	LVR	LOUVER	OH	OVERHEAD	RD	ROOF DRAIN	SHELV	SHELVING	UL	UNDERWRITERS LABORATORY
A/E	ARCHITECT/ENGINEER	CK	CAULK	DP	DAMP PROOFING	FIN	FINISH(ED)	HD HT	HEAD HEIGHT			OH/OPH	OPPOSITE HAND	RECEP	RECEPTIONIST	SHT	SHEET	UNF	UNFINISHED
AFF	ABOVE FINISHED FLOOR	CLG	CEILING	DR	DOOR	FJT	FLUSH JOINT	HTG	HEATING					REF	REFERENCE	SHTH	SHEATHING	UNO	UNLESS NOTED OTHERWISE
AHJ	AUTHORITY HAVING JURISDICTION	CLOS	CLOSET	DRB	DRAIN BOARD	FLEX	FLEXIBLE	HVAC	HEATING/VENTILATING/AIR CONDITIONING	M	METER	OPCI	OWNER PROVIDED CONTRACTOR INSTALLED	REFR	REFRIGERATOR	SIM	SIMILAR	UR	URINAL
AHU	AIR HANDLING UNIT	CLR	CLEAR(ANCE)	DS	DOWN SPOUT	FLG	FLASHING			MAS	MASONRY			REG	REGISTER	SJ	STEEL JOIST		
ALT	ALTERNATE	CLS	CLOSURE	DTL	DETAIL	FLR	FLOOR	HWD	HARDWOOD	MAT'L	MATERIAL	OPG	OPENING	REINF	REINFORCE(D),(ING)	SL	SLEEVE		
ALUM	ALUMINUM	CMU	CONC MASONRY UNIT	DWG	DRAWING	FLUOR	FLUORESCENT	HWH	HOT WATER	MAX	MAXIMUM	OPOI	OWNER PROVIDED OWNER INSTALLED	REM	REMOVE	SLR	SEALER		
ANC	ANCHOR(AGE)	CNTR	CENTER	DWR	DRAWER	FND	FOUNDATION			MC	MISCELLANEOUS CHANNEL	OPP	OPPOSITE	REQ'D	REQUIRED	SOG	SLAB ON GRADE		
ANOD	ANODIZED	CNTRSNK	COUNTERSINK			FOC	FACE OF CONCRETE			MECH	MECHANICAL	ORD	OVERFLOW ROOF DRAIN	RES	RESILIENT	SP	SOUND PROOF	VAT	VINYL ASBESTOS TILE
AP	ACCESS PANEL	CO	CLEAN OUT			FOF	FACE OF FINISH			MED	MEDIUM	OS	OUTSIDE	RET	RETURN	SPCR	SPACER	VAR	VARNISH
APROX	APPROXIMATE	COL	COLUMN			FOM	FACE OF MASONRY			MEMB	MEMBRANE	OV	OVERALL	REV	REVISION(S),(D)	SPEC	SPECIFICATION(S)	VB	VAPOR BARRIER
ARCH	ARCHITECT(URAL)	CONC	CONCRETE			FOS	FACE OF STUDS			MEP	MECHANICAL/ELECTRICAL/PLUMBING			RFG	ROOFING	SPK	SPEAKER	VCT	VINYL COMPOSITION TILE
ASB	ASBESTOS	CONN	CONNECTION	E	EAST	FP	FIREPROOF	IBC	INSULATED BY CONTRACTOR			PC	PRE CAST	RFH	ROOF HATCH	SPL	SPECIAL	VERT	VERTICAL
ASPH	ASPHALT	CONST	CONSTRUCTION	EA	EACH	FPL	FLOOR PLATE	ID	INSIDE DIAMETER	MTL	METAL	PCC	PRE CAST CONCRETE	RFI	REQUEST FOR INFO	SQ	SQUARE	VEST	VESTIBULE
AUTO	AUTOMATIC	CONT	CONTINUOUS	EB	EXPANSION BOLT	FR	FRAME(D)(ING)	INCL	INDICATED(D)(ING)	MFR	MANUFACTURER	PCF	POUNDS PER CUBIC FOOT	RFL	REFLECTED(D),(ING)	SQIN	SQUARE INCH	VOL	VOLUME
A/V	AUDIO VISUAL	CONTR	CONTRACTOR(S)	EIFS	EXTERIOR INSULATION & FINISH SYSTEM	FRC	FIRE-RESISTANT COATING	INFO	INFORMATION	MH	MANHOLE	PERIM	PERIMETER	RH	RIGHT HAND	SQYD	SQUARE YARD		
		COMPT	COMPARTMENT			FRP	FIBERGLASS REINFORCED PLASTIC	INSUL	INSULATION	MIN	MINIMUM	PFN	PRE FINISHED	RL	RAIN LEADER	SS	STAINLESS STEEL		
		CORR	CORRUGATED	EJ	EXPANSION JOINT	FRT	FIRE-RETARDANT	INT	INTERIOR	MIR	MIRROR	PG	PLATE GLASS	RM	ROOM	STA	STATION		
		CP	CENTER POINT	EL	ELEVATION	FS	FULL SIZE	INV	INVERT	MISC	MISCELLANEOUS	PH	PHASE	RO	ROUGH OPENING	STD	STANDARD	W	WEST
BD	BOARD	CPCI	CONTRACTOR PROVIDED CONTRACTOR INSTALLED	ELEC	ELECTRICAL	FT	FOOT	IPS	IRON PIPE SIZE	MM	MILLIMETER	PJ	PANEL JOINT	ROW	RIGHT OF WAY	STL	STEEL	W	WITH
BEL	BELOW			ELEV	ELEVATOR	FTG	FOOTING			MO	MASONRY OPENING	PL	PROPERTY LINE/PLATE	RWC	RAIN WATER CONDUCTOR	STOR	STORAGE	WB	WOOD BASE
BET	BETWEEN			EMER	EMERGENCY	FUT	FUTURE			MT	METAL THRESHOLD	PLAM	PLASTIC LAMINATE	RVS	REVERSE(SIDE)	STR	STRUCTURAL	WC	WATER CLOSET
BIT	BITUMINOUS	CR	CHROMIUM (PLATED)	ENCL	ENCLOSE(URE)	FUR	FURRING	JB	JUNCTION BOX	MTD	MOUNTED	PLAS	PLASTER			SUS	SUSPENDED	WD	WOOD
BLDG	BUILDING	CRS	COURSE(S)	ENGR	ENGINEER	FURN	FURNITURE/FURNISHINGS	JC	JANITOR CLOSET			PLF	POUNDS PER LINEAL FOOT			SYM	SYMMETRY(ICAL)	WG	WIRED GLASS
BLK(G)	BLOCK(ING)	CSMT	CASEMENT	EP	ELECTRICAL POWERBOARD	FV	FIELD VERIFIED	JF	JOINT FILLER			PLBG	PLUMBING			SYN	SYNTHETIC	WH	WALL HUNG
BM	BENCH MARK	CT	CERAMIC TILE	EQ	EQUAL			JST	JOIST			PLYWD	PLYWOOD			SYS	SYSTEM	WHB	WHEEL BUMPER
BOT	BOTTOM OF	CYD	CUBIC YARD	EQUIP	EQUIPMENT			JT	JOINT			PNL	PANEL					WI	WROUGHT IRON
BOT	BOTTOM			ESC	ESCALATOR	GA	GAUGE					PNT	PAINT					WIN	WINDOW
BRG	BEARING			EST	ESTIMATE	GALV	GALVANIZED					PNTD	PAINTED			T	TREAD	WM	WIRED MESH
BRG PL	BEARING PLATE			EWC	ELECTRIC WATER COOLER	GB	GRAB BAR					POL	POLISHED			TB	TOWEL BAR	WO	WITHOUT
BRK	BRICK			EX	EXISTING	GC	GENERAL CONTRACTOR					PR	PAIR/PROPOSAL REQUEST			TEL	TELEPHONE	WP	WATERPROOFING
BS	BOTH SIDES			EXP	EXPANDED(EXPANSION)	GD	GRADE	KIT	KITCHEN			PREFAB	PREFABRICATE(D)			TEMP	TEMPORARY	WR	WATER REPELLENT
BSL	BUILDING SETBACK LINE			EXT	EXTERIOR	GENVL	GENERAL	KO	KNOCKOUT			PRELIM	PRELIMINARY			TER	TERRAZZO	WS	WATER STOP
BSMT	BASEMENT					GI	GALVANIZED IRON					PRF	PERFORMED			T&G	TONGUE AND GROOVE	WSCT	WAINSCOT
BUR	BUILT UP ROOFING					GKT	GASKET(ED)					PSF	POUNDS PER SQUARE FOOT			THK	THICK(NESS)	WTH	WIDTH
BVL	BEVELED					GL	GLASS					PSI	POUNDS PER SQUARE INCH			THRES	THRESHOLD	WTW	WALL TO WALL
BW	BOTH WAYS					GLAM	GLUE LAMINATED					PT	POINT/PRESSURE TREATED			TLT	TOILET	WWF	WELDED WIRE FABRIC
						GP	GALVANIZED PIPE					PTN	PARTITION			TO	TOP OF		
						GSS	GALVANIZED STEEL SHEET					PVC	POLYVINYL CHLORIDE			TOL	TOLERANCE		
						GWB	GYPSUM WALL BOARD					PVMT	PAVEMENT			TOM	TOP OF MASONRY		
						GYP	GYPSUM									TOS	TOP OF STEEL		
						GYPBD	GYPSUM BOARD									TOW	TOP OF WALL		

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Consultants

Orange County Government Florida

Orange County Convention Center

OCCC - WEST HALL D

WEST BUILDING OFFICE SPACE BUILD OUT

9800 International Drive, Orlando, FL 32819

Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

BID DOCUMENTS

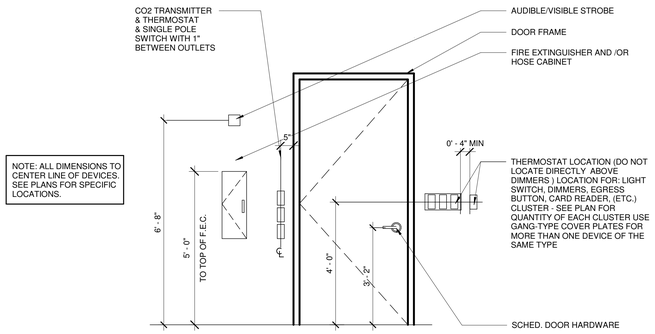
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

GENERAL INFORMATION & DRAWING INDEX

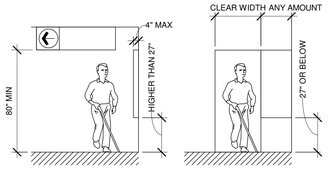
SCALE:	12" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

G001



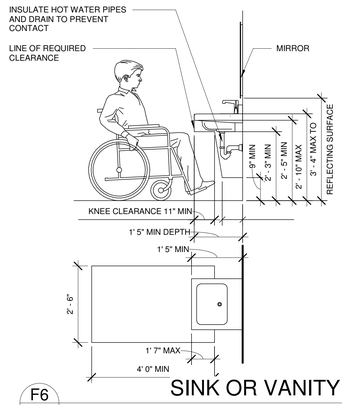
F1 G002 TYP MOUNTING HEIGHTS

scale: NTS



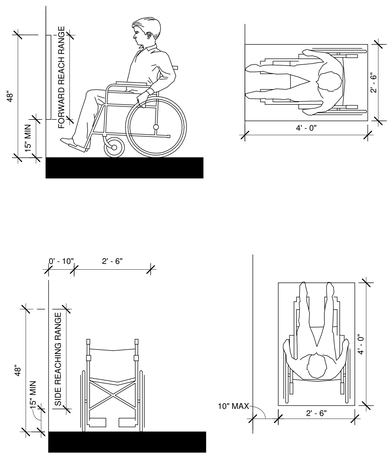
F4 G002 PROTRUDING OBJECTS

scale: NTS



F6 G002 SINK OR VANITY

scale: NTS

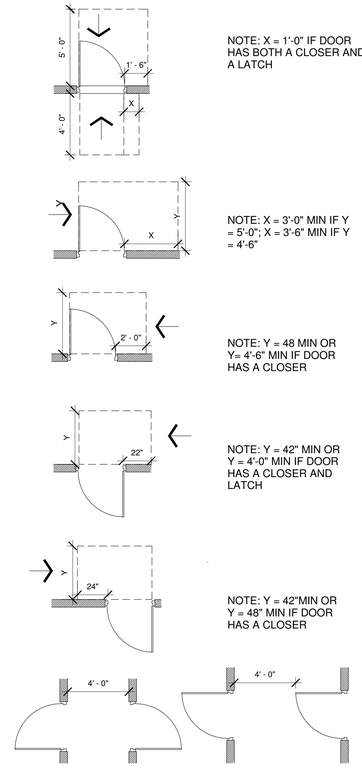


D7 G002 REACH RANGES

scale: NTS

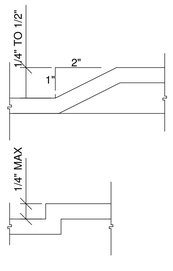
NOTE:

ALL DRAWINGS ON THIS SHEET ARE FOR REFERENCE ONLY. INFORMATION IN THE LATEST FBC CODE EDITION AND / OR AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS TAKE PRECEDENCE.



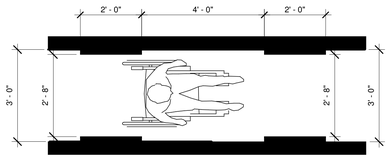
D9 G002 CLEARANCES

scale: NTS



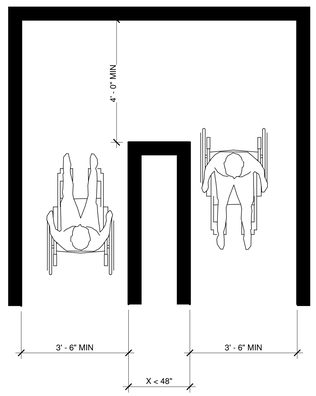
D1 G002 THRESHOLDS

scale: NTS



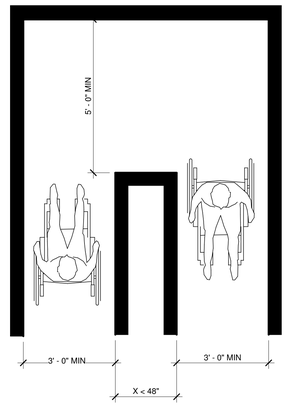
A1 G002 CLEAR WIDTH

scale: NTS



A4 G002 CLEAR WIDTH @ 180 DEGREE TURN

scale: NTS



A6 G002 CLEAR WIDTH @ DEG TURN (EXCEPTION)

scale: NTS

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9800 International Drive, Orlando, FL 32819

Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

BID DOCUMENTS
NOT FOR CONSTRUCTION

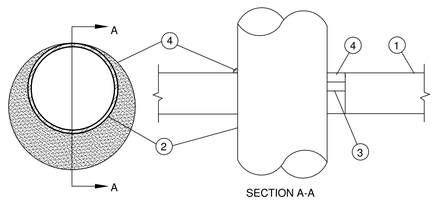
DATE	SUBMISSION/REVISION	NO.

ADA & CLEARANCES

SCALE:	As indicated
DRAWN BY:	KC
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

G002

SYSTEM NO. C-AJ-1001
June 15, 2005
F Rating - 3 Hr
T Rating - 0 Hr
W Rating - Class I (See Item 4)



SECTION A-A

1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular through opening is 32-1/2 in. (826 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, not shown) - Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51 mm) from top surface of floor or from both surfaces of wall.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm)(point contact) to max 1-3/8 in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
A1. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
B. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

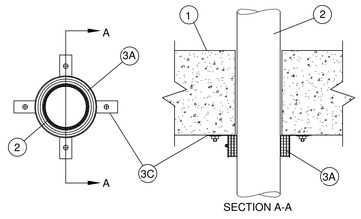
3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed min 1/2 in. (13 mm) from bottom surface of floor or from either side of solid concrete wall.

4. Fill,Void or Cavity Materials* - Caulk or Sealant - Applied to fill the annular space to the min thickness shown in the following table:
(a) BR = Polyethylene backer rod.
CF = Ceramic fiber blanket.
GF = Glass fiber insulation.
MW = Mineral-wool batt.
(b) Caulk installed flush with top surface of floor or both surfaces of wall.
(c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant. (Note: W Rating applies only when FB-3000 WT sealant is used.)

*Bearing the UL Classification Marking

SYSTEM NO. C-AJ-2001
May 18, 2005
F Rating - 2 Hr
T Ratings - 0, 1-1/2 and 2 Hr (See Item 3)
L Rating at Ambient - 7 CFM/sq ft (See Item 3B)
L Rating at 400 F - 1 CFM/sq ft (See Item 3B)



SECTION A-A

1. Floor or Wall Assembly - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Except as footnoted for floor assembly in table under Item 3, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor assembly may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Diam of opening through floor or wall to be 0 in. to 1/4 in. (0 mm to 6 mm) larger than the outside diam of nom 2 in. (51 mm) diam and smaller pipes or conduits. Diam of opening to be 0 in. to 1/2 in. (0 mm to 13 mm) larger than the outside diam of nom 2-1/2 in. (64 mm) diam and larger pipes or conduits. Max diam of opening is 7 in. (178 mm).

See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in Fire Resistance Directory for names of manufacturers.

2. Through Penetrants - One nonmetallic pipe or conduit to be centered in the through opening. Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

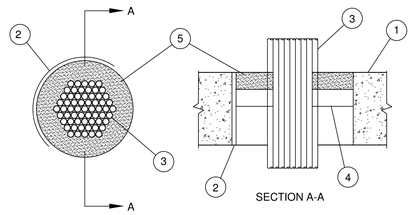
A. Polyvinyl Chloride (PVC) Pipe - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
B. Cellular - Core Polyvinyl Chloride (ccPVC) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 6 in. (152 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
D. Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid-core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
E. Cellular Core Acrylonitrile Butadiene Styrene (ccABS) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
F. Polybutylene (PB) Pipe - Nom 3 in. (76 mm) diam (or smaller) SDR11 (or heavier) PB pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
G. Rigid Nonmetallic Conduit++ - Nom 4 in. (102 mm) diam (or smaller) (Schedule 40 or 80) PVC conduit installed in accordance with Article 347 of the National Electric Code (NFPA No. 70).
H. Flame Retardant Polypropylene (FRPP) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

See Rigid Nonmetallic Conduit (DZKT) category in UL Electrical Construction Materials Directory for names of manufacturers.

3. Firestop System - The details of the firestop system shall be as follows:

A. Fill,Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 1 in. and 2 in. (25 mm and 51 mm) wide strips. Strips tightly wrapped around nonmetallic pipe (foil side exposed) with the edges butted against the underside of the concrete floor or both sides of wall surface. Sufficient layers of wrap strip shall be installed to lap a min of 3/16 in. (5 mm) on the concrete around the entire perimeter of the through opening. The min wrap strip width and the min number of layers of wrap required is dependent upon the pipe type, the nom pipe diam, the wall of floor thickness and the hourly T Rating required, as shown in the following table.

SYSTEM NO. C-AJ-3030
September 03, 2004
(Formerly System No. 320)
F Ratings - 1-1/2, 2 and 3 Hr (See Item 5)
T Rating - 0 Hr
L Rating At Ambient - 129 CFM/sq ft
L Rating At 400 F - 92 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly - Min 2-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2.Sleeve (Optional) - Nom 8 in. diam (or smaller) Schedule 40 (or heavier) steel pipe or nom 6 in. diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast into floor or wall assembly. Sleeve to be flush with or project max 2 in. from top surface of floor or both surfaces of wall. When PVC sleeve is used, max cable conductor size is No. 12 AWG.

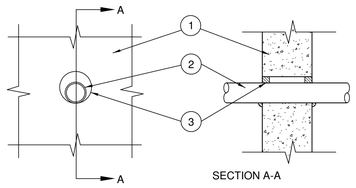
3. Cables - Aggregate cross-sectional area of cables to be min 10 percent to max 40 percent of the cross-sectional area of the opening. Cables to be rigidly supported on both sides of the floor or wall assembly. Any combination of the following types and sizes of cables may be used:
A. Max 1000 kcmil single-conductor copper or aluminum power cable; cross-linked polyethylene insulation.
B. Max No. 2/0 AWG multiconductor copper or aluminum power cables; cross-linked polyethylene, polyvinyl chloride, neoprene rubber, hypalon or silicone rubber insulation and jacket materials.
C. Max No. 12 AWG multiconductor copper control cables; cross-linked polyethylene, polyvinyl chloride,neoprene rubber, hypalon or silicone rubber insulation and jacket materials.
D. Max 400 pair No. 24 AWG copper telephone cables; polyvinyl chloride insulation and jacket materials.
E. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 5/8 in.
F. Max 200 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
G. Max 3/C No. 3/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.
H. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.
I. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.
J. RG/U coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket.
K. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.
L. Max 3/C No. 12 AWG (or smaller) MC (BX) copper cable with polyvinyl chloride insulation and jacket materials.
M. Through Penetrating Product* - Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers

4. Packing Material - Min 1 in. thickness of mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or ends of sleeve as required to accommodate the required thickness of fill material (Item 5).

5. Fill,Void or Cavity Material* - Caulk or Sealant - Applied to fill the through opening to a min thickness of 1 in. flush with the top surface of the floor or sleeve or both surfaces of wall or ends of sleeve. Caulk or sealant to be forced into interstices of cable group to max extent possible. F Rating of firestop systems is dependent upon the through opening size, the thickness of the concrete, the sleeve type and percent cable fill, as tabulated below:

3M COMPANY - CP 25WB+ caulk or FB-3000 WTsealant.
*Bearing the UL Classification Marking

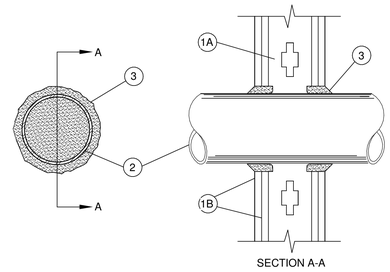
SYSTEM NO. W-J-2149
F Rating - 1, 2, 3 & 4 Hr (See Item 1)
T Rating - 1, 2, 3 & 4 Hr



SECTION A-A

1. Wall Assembly – Min 4-7/8, 6-1/8, 7-3/8 or 8-5/8 in. thick lightweight or normal weight (100- 150 pcf) concrete for 1, 2, 3 or 4 hour rated wall assemblies, respectively. Wall may also be constructed of any UL Classified Concrete Blocks. Max diam of opening is 3-1/8 in.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. The F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed
2. Through Penetrants – One nonmetallic pipe or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. to max 7/8 in. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or tubing may be used:
A. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 2 in. diam (or smaller) SDR 11 CPVC pipe for use in closed (process or supply) piping systems.
B. Polyvinyl Chloride (PVC) Pipe – Nom 2 in. diam (or smaller) Schedule 40 (or heavier) cellular or solid core PVC pipe for use in closed (process or supply) piping systems.
C. Crosslinked Polyethylene (PEX) Tubing – Nom 1-1/2 in. diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
3. Fill, Void or Cavity Material* – Sealant – Min 5/8 in. thickness for 1 hr rated wall assemblies and 1 in. thickness of fill material for 2, 3 or 4 hr rated wall assemblies, respectively, applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and periphery of opening, a min 1/2 in. diam bead of fill material shall be applied at the concrete/penetrant interface on both surfaces of wall.
John Wagner & Associates Inc. – GrabberGard IFC

SYSTEM NO. W-L-1001
June 15, 2005
F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient — less than 1 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
B. Gypsum Board* — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
2. Through-Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
F. Through Penetrating Product* — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:
1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC
2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
GASTITE, DIV OF TITEFLEX
3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
WARD MFG L L C
3. Fill, Void or Cavity Material* — Caulk or Sealant — Min 5/8. , 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In	F Rating Hr	T Rating Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 h.
3M COMPANY — CP 25WB+ or FB-3000 WT.
*Bearing the UL Classification Marking
last updated on 2005-06-15

GENERAL NOTE: INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY. GENERAL CONTRACTOR SHALL COMPLY AND COORDINATE WITH THE LATEST UL DESIGNS.

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Consultants

Orange County Government Florida

Orange County Convention Center

OCCC - WEST HALL D

WEST BUILDING OFFICE SPACE BUILD OUT

9800 International Drive,
Orlando, FL 32819

Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

UL DEFINITIONS & ASSEMBLY - FOR INFORMATION ONLY

SCALE:	1/4" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC/MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

G021

DESIGN NO. U415
September 27, 2018
NONBEARING WALL
RATING - 1HR

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System A – 1 Hr.

Horizontal Section

System B – 2 Hr.

Horizontal Section

System G – 3 Hr.

Horizontal Section

1. Floor, Side and Ceiling Runners — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.
2. Steel Studs — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7).

2C. Furring Channels — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units (Item 7).

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

2G. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units (Item 7):

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units (Item 7)::

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. Steel Framing Members* — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC- Assurance Clip

3. Gypsum Board* — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. Gypsum Board* —

System A — 1 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX. When ULIX is used insulation, Item 6, Batts and Blankets* is required and minimum stud depth is 4 in.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

SYSTEM G - 3 HOUR

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

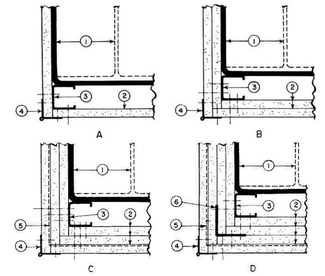
USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

DESIGN NO. X528
October 24, 2017

RATINGS - 1HR, 2 HR, 3HR



CORNER DETAILS OF WALLBOARD
SUPPORT SYSTEMS WITHOUT STEEL COVERS

1. Steel Column — Min sizes of W-shaped and tubular steel columns which appear in the AISC Steel Construction Manual as shown under Item 2.
2. Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. LS01, GS12 or U305. Nom 1/2 in. or 5/8 in. thick gypsum board. Applied in layers as noted in the above illustrations. Boards are to be applied vertically without horizontal joints. Min total thickness of layers in inches for the various ratings and min column sizes are as follows:

W Shaped Column Min Column Size	Rating (Hr) Corner Details For Various Rating 1 Hr	1 2 Hr	2 3 Hr
Total thickness (In.)			
W4x13	1	1-1/2	2-1/4
	B	C	D
W6x15.5	1	1-1/2	2-1/4
	B	C	D
W10x49	1/2	1-1/8	1-7/8
	A	B	C
Tube Shaped columns			
TS 4 by 4 by0.188	1	1-3/4	2-5/8
	B	C	D
TS 8 by 8 by 0.250	5/8	1-1/2	2-1/4
	A	C	D

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — eXP-C, CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. Gypsum Board* — As an alternate to Item 2- 3/4 in. thick gypsum wallboard. For 2 Hr rating, 1-1/2 in. total thickness, installed in accordance with corner detail B. For 3 Hr rating, 2-1/4 in. total thickness installed in accordance with corner detail C. Boards are to be applied vertically without horizontal joints.
CGC INC — Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Type IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Type IP-X3 or ULTRACODE

2B. Gypsum Board* — (As an alternate to Items 2 and 2A) — Nominal 5/8 in. thick panels. One of the layers of Gypsum Board (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

2C. Wall and Partition Facings and Accessories* — (As an alternate to Item 2 through 2B) — Composite Gypsum Panel — Nominal 5/8 in. thick panels. One of the layers of Gypsum Board (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer of composite gypsum panel and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR

3. Steel Stud — 1-5/8 in. wide with 1-5/16 and 1-7/16 in. legs having a 1/4- in. folded flange, fabricated from No. 25 MSG galv steel. Length to be 1/2 in. less than the assembly height.
3A. As an alternate to Item 3 Steel Framing Members* — galv. steel clips spaced 4 ft OC and 1-1/4 in. from top and bottem of column. A No. 28 MSG galv steel support angle with 1-1/4 in. length shall be placed over clips and secured with screws attaching the wallboard. The angle cut 1 in. less than assembly height splices in angle to occur over clips. The clips for use with wide flange columns only.
JOHN WAGNER ASSOCIATES INC, DBA GRABBER — Types CB, CB1Clips.

4. Corner Beads — No. 28 MSG galv steel, 1-1/4 in. legs to be attached to the wallboard with No. 6 by 1 in. screws spaced 12 in. OC max.
5. Tie Wire — No. 18 SWG steel wire spaced 24 in. OC used with second layer of wallboard.
6. Screws — For attaching first layer of wallboard to steel studs, and third layer of wallboard to 2 in. by 2 in. steel angle (25 Ga) to be No. 6 by 1 in. (or 1-1/4 in. for 3/4 in. thick wallboard) Phillips head self-drilling, self-tapping double lead screws spaced 24 in. OC For attaching second layer of wallboard to steel studs and fourth layer of wallboard to 2 in. by 2 in. steel angle (25 Ga) to be No. 6 by 1-3/4 in. (or 2-1/4 in. for 3/4 in. thick wallboard) steel screws of the same type spaced 12 in. OC For attaching third layer of wallboard to steel studs to be No. 8 by 2-1/4 in. screws of the same type spaced 12 in. OC
7. Finishing System — (Not Shown) — Joint compound applied over corner beads to a thickness of 1/16 in.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
Last Updated on 2017-10-24

GENERAL NOTE: INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY. GENERAL CONTRACTOR SHALL COMPLY AND COORDINATE WITH THE LATEST UL DESIGNS.

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ORLANDO, FL 32801
PH (407) 648 - 7288
www. rbarchitects.com

Consultants

ORANGE COUNTY GOVERNMENT FLORIDA

Orange County Convention Center

OCCC - WEST HALL D

WEST BUILDING OFFICE SPACE BUILD OUT

9800 International Drive,
Orlando, FL 32819

Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

UL DEFINITIONS & ASSEMBLY - FOR INFORMATION ONLY

SCALE:	3/16" = 1'-0"
DRAWN BY:	KC
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

G022

WALL TYPES (KEY I + KEY II + KEY III + KEY IV + KEY V) =

KEYIV | KEYV
KI+II+III
ADDITIONAL NOTES

EXAMPLE WALL TYPE (S3AS) =
3-5/8" FULL HEIGHT, NOT RATED, INSULATED METAL STUD WALL

A | S
S3

KEY I (DIAMOND) MATERIAL DESCRIPTION

S	METAL STUDS
H	SHAFT WALLS
M	MASONRY
C	CONCRETE
F	METAL STUD FURRING
K	METAL STUD WALL STACKED OVER MASONRY
PA	PLUMBING CHASE WALL BOTH STUDS TO DECK
PB	PLUMBING CHASE WALL 1 STUD TO DECK
W	WOOD STUDS
X**	COMBINATION
E*	EXISTING
**	PREFIX TO BE ADDED IN FRONT OF MATERIAL DESCRIPTION
*	**X (COMBINATION) SPECIAL MATERIAL CODES**
0-19	METAL STUD + CMU
20-39	METAL STUD + CONCRETE
40-59	WOOD STUD + CMU
60-79	WOOD STUD + CONCRETE
80-89	CMU + CONCRETE
90-99	USER DEFINED

KEY II (DIAMOND) MATERIAL WIDTH

FURRING SIZES

0.5	1/2" FURRING OR CHANNELS
0.6	5/8" FURRING OR CHANNELS
0.7	3/4" FURRING OR CHANNELS
0.8	7/8" FURRING OR CHANNELS

TYPICAL MATERIAL WIDTHS

1	1-5/8" STUDS OR CHANNELS
2	2-1/2" STUDS OR 1-5/8" CMU
3	3-5/8" STUDS
4	4" STUDS OR 3-5/8" CMU
6	6" STUDS OR 5-5/8" CMU
8	8" STUDS OR 7-5/8" CMU
10	9-5/8" CMU
12	11-5/8" CMU

"C" CONCRETE MATERIAL WIDTHS

#	DIMENSIONAL THICKNESS OF WALL

KEY III (DIAMOND) WALL RATING

R	FIRE RATED
R1	1 HR RATED
R2	2 HR RATED
K	SMOKE PARTITION
KB1	1 HR RATED SMOKE BARRIER
KB2	2 HR RATED SMOKE BARRIER

KEY IV (FIRST QUAD) PRIMARY WALL MODIFER

WALL HEIGHTS

A	TO UNDERSIDE OF DECK
B	TO 6" ABOVE CEILING, UNO
C	TO UNDERSIDE OF CEILING
D	VARIABLE HEIGHT
E	INFILL EXISTING OPENING
F	METAL STUD FURRING, ON TOP OF BASE WALL ABOVE CEILING
G-Z	USER DEFINED (OTHER THAN WHAT IS DEFINED ABOVE)
I,O	NOT USED

KEY V (SECOND QUAD) SECONDARY WALL MODIFER

S	INSULATION (SOUND ATTENUATION)
N	RESILIENT CHANNELS (W/ GYP BOARD AND SOUND INSULATION)
V	VAPOR BARRIER
M	FOAM-IN-PLACE INSULATION
A-Z	USER DEFINED (OTHER THAN WHAT IS DEFINED ABOVE)
I,O	NOT USED

GENERAL NOTES - WALL TYPES

1 REFER TO PLANS FOR LOCATION AND EXTENTS OF RATED WALLS. THE CONSTRUCTION OF ALL RATED WALLS SHALL CONFORM TO THE REFERENCED UNDERWRITERS LABORATORIES, INC (UL) OR GYPSUM ASSOCIATION (GA) TEST ASSEMBLY NUMBERS INDICATED. THE REFERENCED UL OR GA TEST ASSEMBLY MAY CONTAIN PROPRIETARY PRODUCTS AND/OR MATERIALS WHICH MUST BE FURNISHED.

2 PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS (VERIFY/COORD W/ SPECIFICATIONS) AND THROUGH-PENETRATION FIRESTOP DEVICES (VERIFY/ COORD W/ SPECIFICATIONS), SEALANTS AND RELATED PRODUCTS FOR FIRE-RATED FLOOR AND WALL PENETRATIONS (AND SEALING TOP OF RATED WALLS TO DECK). THIS WORK ALSO INCLUDES FIRESTOPPING AT PENETRATIONS THROUGH ALL FIRE-RATED WALLS AND FLOORS. ALL RATED WALL PENETRATIONS SHALL MAINTAIN THE INTEGRITY OF THE WALL ASSEMBLY. PROVIDE FIRESTOP SEALANT BETWEEN CMU AND STUD WALL CONSTRUCTION AT ALL FIRE RATED / SMOKE TIGHT RATED WALLS.

3 THE FOLLOWING STATEMENT: "FIRE AND SMOKE PARTITION- PROTECT ALL OPENINGS", SHALL BE STENCILED ON ALL FIRE WALLS AND PARTITIONS USING 3" HIGH LETTERING AT 20' OC MAXIMUM, AT EACH CHANGE IN WALL OR PARTITION DIRECTION PLACED ABOVE CEILING HEIGHT AND IN CONCEALED LOCATIONS.

4 STUD WALL PARTITIONS AT ALL RESTROOM, SHOWERS AND WET AREAS SHALL RECEIVE MOISTURE RESISTANT BOARD. PARTITIONS AND WALLS AT AREAS EXPOSED TO UNCONDITIONED AREAS OR AREAS WITHOUT HUMIDITY CONTROL SHALL RECEIVE MOISTURE RESISTANT GYP BOARD IN LIEU OF GYP BOARD SCHEDULED AT PARTITION.

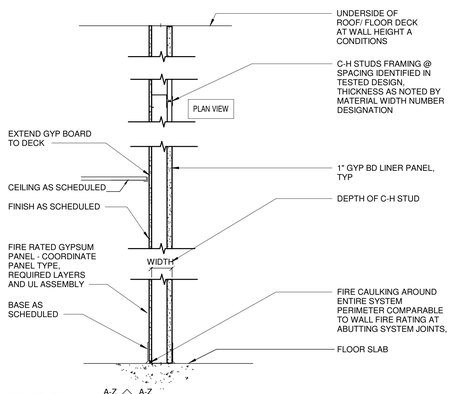
5 AT CERAMIC TILE INSTALLATIONS AT AREAS EXPOSED TO DIRECT WATER SHALL RECEIVE CEMENTITOUS TILE BACKER BOARD.

6 SEE INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR HEIGHTS, AND TYPE OF ALL FINISHES LOCATED ON PARTITIONS AND WALLS.

7 AT ALL WALLS, INCLUDING NON-RATED, ACOUSTICAL, FIRE RATED AND SMOKE PARTITIONS, ELECTRICAL OUTLETS AND OTHER SERVICE PENETRATIONS AND OPENINGS IN OPPOSITE SIDES OF THE PARTITION SHALL BE SEPARATED BY TWO COMPLETE STUD SPACES ACROSS LENGTH OF WALL. SHOULD CONDITIONS BE PRESENT WHERE THIS DISTANCE IS LESS THAN 24", PROVIDE WALL OPENING PROTECTIVE MATERIALS (CLIV) AS DESCRIBED IN THE UL BXUV DIRECTORY ACCORDING TO THE REQUIREMENTS OF THEIR CLASSIFICATION.

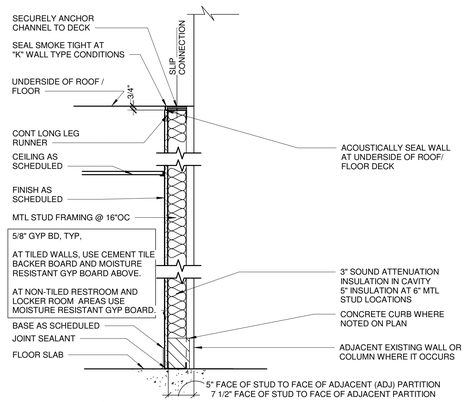
8 GYPSUM BOARD TO BE INSTALLED A MIN. OF 1/2" ABOVE THE FLOOR SLAB. REMOVE WATER AND MOISTURE DAMAGED GYPSUM BOARD.

9 LIGHT GAUGE METAL STUD MFR / FABRICATOR SHALL PROVIDE SIGNED AND SEALED ENGINEERED SHOP DRAWINGS FOR DESIGN OF BRACING, ANCHORAGE, FASTENERS, LAYOUT AND OTHER RELATED WORK FOR COLD FORMED AND LIGHT GAUGE METAL STUD PARTITIONS, CEILINGS, AND OTHER RELATED FABRICATIONS. DESIGN OF COLD FORMED METAL FRAMING SHALL CONFORM TO THE LATEST EDITION OF "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS" (AISI). DESIGN OF NONSTRUCTURAL STEEL FRAMING SHALL CONFORM TO THE LATEST EDITION OF "STANDARD SPECIFICATION OF NONSTRUCTURAL STEEL FRAMING MEMBERS" (ASTM).



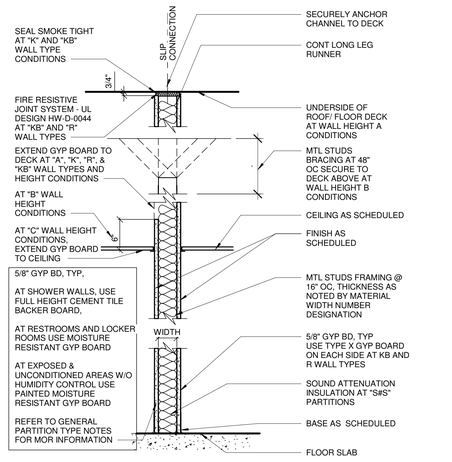
TYPE A-Z H# A-Z

TYPE	DESCRIPTION	REF DESIGN
H2R1	1 HR SHAFT WALL, 2 1/2" C-H STUDS, 1" LINER, 1 LAYER GYP BD	UL DESIGN 415



TYPE A-Z F# A-Z

TYPE	DESCRIPTION	REF DESIGN
F1	1 5/8" MTL STUDS, NOT RATED	
F3	3 5/8" MTL STUDS, NOT RATED	



TYPE A-Z S# A-Z

TYPE	DESCRIPTION	REF DESIGN	STC
S3	3 5/8" MTL STUDS, NOT RATED		
S3R1	3 5/8" MTL STUDS, 1HR. RATED	UL U404	
S#-S	ADD 3" SOUND ATTENUATION INSULATION IN CAVITY		

rhodes + brito ARCHITECTS
AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www. rbarchitects.com

Consultants

ORANGE COUNTY GOVERNMENT FLORIDA

Orange County Convention Center

OCCC - WEST HALL D

WEST BUILDING OFFICE SPACE BUILD OUT

9800 International Drive, Orlando, FL 32819

Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

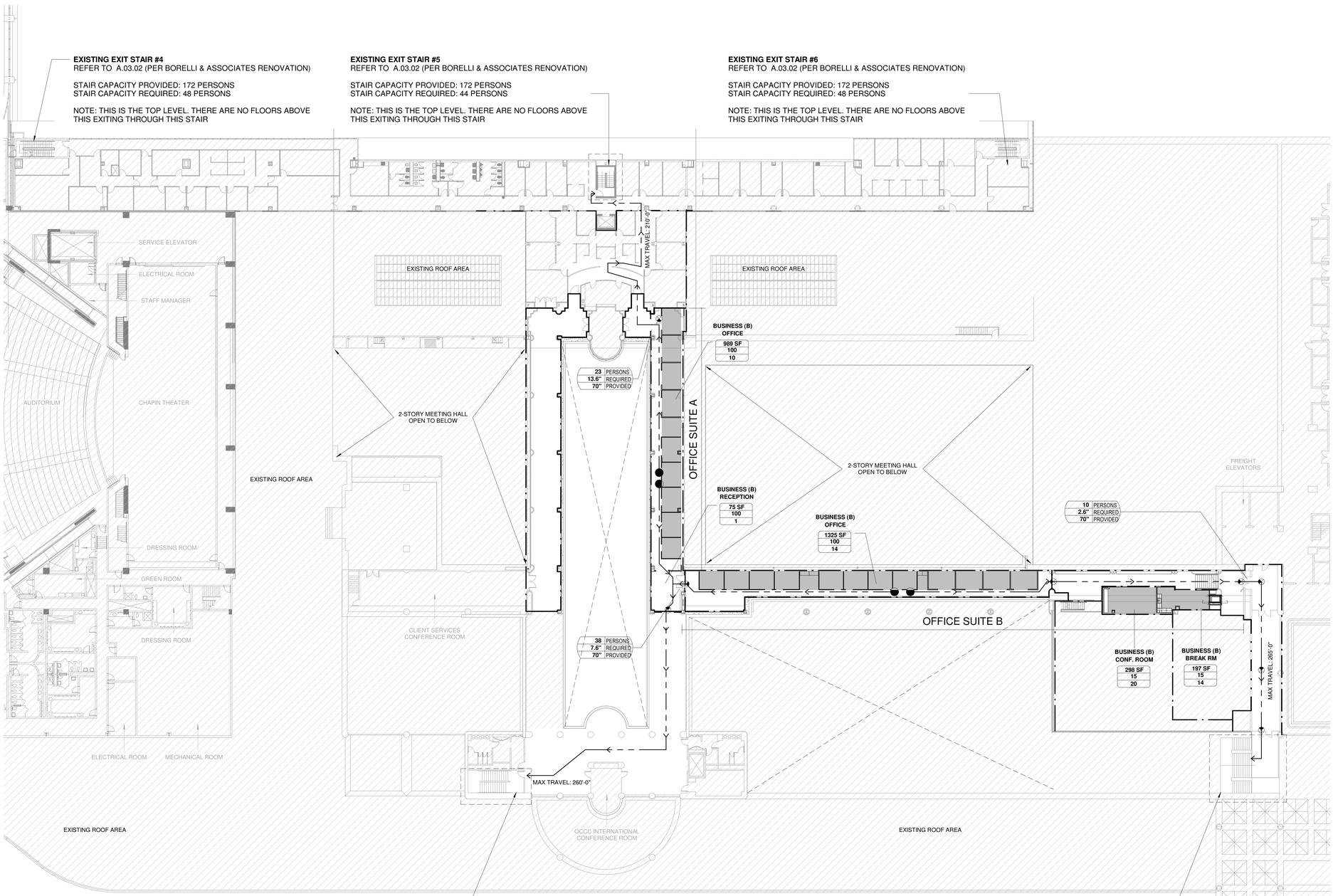
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

WALL TYPES / DETAILS

SCALE:	1" = 1'-0"
DRAWN BY:	KC
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

G041



EXISTING EXIT STAIR

STAIR WIDTH: 60 INCHES
STAIR CAPACITY PROVIDED:200 PERSONS
STAIR CAPACITY REQUIRED: 145 PERSONS

NOTE: THIS IS THE TOP LEVEL. THERE ARE NO FLOORS ABOVE THIS EXITING THROUGH THIS STAIR

EXISTING EXIT STAIR #3
REFER TO LS2.003 (PER HHCP/JENSEN-HUGHES RENOVATION)

STAIR WIDTH: 154 INCHES
STAIR CAPACITY PROVIDED: 513 PERSONS
STAIR CAPACITY REQUIRED: 503 PERSONS

NOTE: THIS IS THE TOP LEVEL. THERE ARE NO FLOORS ABOVE THIS EXITING THROUGH THIS STAIR

A1
G130

LIFE SAFETY PLAN

SCALE: 3/64" = 1'-0"

KEY PLAN

1 2 3
AREA

APPLICABLE CODES

1. FLORIDA BUILDING CODE (FBC) 2017 SIXTH EDITION
2. FLORIDA ACCESSIBILITY CODE 2017 SIXTH EDITION
3. FLORIDA FIRE PREVENTION CODE (FFPC) 2017 SIXTH EDITION

OTHER APPLICABLE CODE CRITERIA, BUT NOT LIMITED TO THE FOLLOWING:

1. NFPA 1, "UNIFORM FIRE CODE," 2018 ED. AS MODIFIED BY FFPC
2. NFPA 10, "STANDARD FOR PORTABLE FIRE EXTINGUISHERS," 2018 EDITION
3. NFPA 13, "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS," 2016 EDITION
4. NFPA 101, " LIFE SAFETY CODE," (LSC) 2018 ED., AS MODIFIED BY THE FFPC
5. CLASSIFICATION OF WORK: ALTERATION LEVEL 2 PER FBC SIXTH EDITION 2017 EXISTING BUILDING CHAPTER 5 SECTION 504.1
6. NFPA 101 - 8.6.7 ATRIUMS

CONSTRUCTION CLASSIFICATION

1. OCCUPANCY CLASSIFICATION: EXISTING BLDG RENOVATED AREA	GROUP A - ASSEMBLY B - BUSINESS
1.1 CONSTRUCTION TYPE	II-B
1.2 ALLOWABLE HEIGHT	UNLIMITED, FULLY SPRINKLERED
1.3 ALLOWABLE AREA	UNLIMITED
1.4 ALLOWABLE STORIES	UNLIMITED
2. EXISTING BUILDING CONSTRUCTION TYPE	II-B
3. EXISTING BUILDING AREA - LEVEL 3 (2ND FLR)	
3.1 GROSS FLOOR AREA (EXISTING)	-
3.2 AREA RENOVATED	9,610 SF
4. EXISTING NUMBER OF STORIES	3 STORIES

OCCUPANT LOAD PER TABLE 1004.1.1 / FBC 2017

1. OCCUPANT LOAD - 2ND FLR (RENOVATED AREA)	
1.1 BUSINESS (B) - OFFICE SUITE A	10
1.2 BUSINESS (B) - OFFICE SUITE B	48

MEANS OF EGRESS CHAPTER 10 - FBC 2017

	REQUIRED	PROVIDED
1. MAXIMUM TRAVEL DISTANCE TO AN EXIT (PER TABLE1017.2 FBC 2017 - BUSINESS OCCUPANCY TRAVEL DISTANCE)	(BUSINESS) = 300 FT, SPRNK	SEE LIFE SAFETY PLAN
2. MAXIMUN COMMON PATH OF TRAVEL (PER TABLE 1006.2.1 FBC 2017 - COMMON PATH OF EGRESS TRAVEL)	(BUSINESS) = 100 FT, SPRNK	SEE LIFE SAFETY PLAN
3. MAXIMUN DEAD END CORRIDOR (PER SECTION 1020.4 DEAD ENDS)	(BUSINESS) = 50 FT, SPRNK	SEE LIFE SAFETY PLAN
4. MINIMUM NUMBER OF EXITS (PER SECTION 1006.3 - EXIT OR EXIT ACCESS DOORWAYS REQUIRED)	1 PER SUITE	2 PER SUITE

5. EGRESS EXIT DOORS: MINIUMUM 32 INCHES CLEAR WIDTH (NFPA 101_7.2.1.2.3.2)
6. FORCE TO OPEN, APPLIED AT THE LATCH STILE (FBC 1010.1.3/NFPA 101_ 7.2.1.4.5)
   6.1. LESS THAN OR EQUAL TO 15 LBF TO OPERATE THE LATCH
   6.2. LESS THAN OR EQUAL TO 30 LBF TO SET THE DOOR IN MOTION
   6.3. LESS THAN OR EQUAL TO 15 LBF TO FULLY OPEN DOOR TO MINIMUM REQUIRED WITDH
   6.4. LESS THAN OR EQUAL TO 5 LBF FOR INTERIOR SIDE-HINGED OR PIVOTED SWINGING DOORS WITHOUT CLOSERS
7. EXIT SIGNS: EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN A EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FT OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN (FBC 1013.1 / NFPA 101_7.10.1.5.2)
8. ELEVATOR LOBBY TO COMPLY WITH NFPA 101_7.2.1.6.3
9. MEANS OF EGRESS SIZING:
   OCCUPANTS x (0.2) FOR DOOR CLEAR OPENING WIDTH (FBC 1005.3.2)
   OCCUPANTS x (0.3) FOR STAIRWAYS WIDTH CAPACITY IN INCHES PER OCCUPANT (FBC 1005.3.1)
10. MIN. CORRIDOR WIDTH: FBC TABLE 1020.2. 36"

PLUMBING PER TABLE 403.1 / FBC 2017: PLUMBING

RENOVATED AREA:

THERE ARE ZERO (0) FIXTURES ADDED. THE PROJECT SCOPE IS TO RELOCATE EXISTING OCCUPANTS FROM ANOTHER AREA WITHIN THE BUILDING RESULTING IN A ZERO (0) NET GAIN.

LIFE SAFETY LEGEND

- MAXIMUM TRAVEL DISTANCE TO AN EXIT
- DEAD END CORRIDOR
- AED — SEMI-RECESSED AUTOMATED EXTERNAL DEFIBRILLATOR
- FE — WALL MOUNTED FIRE EXTINGUISHER CLASS: 2A: 10B: C
- EXIT SIGN
- EXIT SIGN WITH DIRECTIONAL ARROW

XXX SF / XXX / XXX — ROOM AREA (SQUARE FEET); OCCUPANT LOAD FACTOR; NUMBER OF OCCUPANTS

XX PERSONS / XX" REQUIRED / XX" PROVIDED — OCCUPANT LOAD USING EXIT; REQUIRED EXIT WIDTH (INCHES) [OCCUPANT LOAD x 0.2" per OCCUPANT]; PROVIDED EXIT WIDTH (INCHES)

- 1-HR RATED WALL
- 2-HR RATED WALL

OCCUPANCY LEGEND

BUSINESS (B)

rhodes + brito ARCHITECTS
AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www. rbarchitects.com

Consultants

Orange County Government Florida
Orange County Convention Center

OCCC - WEST HALL D

WEST BUILDING OFFICE SPACE BUILD OUT

9800 International Drive,
Orlando, FL 32819

Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

LIFE SAFETY PLAN

SCALE:	As indicated
DRAWN BY:	KC
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

G130

STRUCTURAL GENERAL NOTES:

GENERAL

A. PERFORM CONSTRUCTION AND WORKMANSHIP IN COMPLIANCE WITH CONTRACT DOCUMENTS AND THE FLORIDA BUILDING CODE 2014.

B. STRUCTURAL DRAWINGS, AS PART OF CONTRACT DOCUMENTS, INDICATE SUFFICIENT INFORMATION TO CONVEY DESIGN INTENT. IF ERRORS, INCONSISTENCIES OR OMISSIONS ARE DISCOVERED PROMPTLY NOTIFY STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBER, AND ERECTION IN THE FIELD.

D. THE CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

E. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL ELEMENTS DURING CONSTRUCTION PROCESS UNTIL LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER.

F. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.

G. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, PROCEDURES OF CONSTRUCTION AND TO COMPLY WITH OSHA REGULATIONS.

CONCRETE

A. MIXING, BATCHING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE, AND SELECTION OF CONCRETE MATERIALS, SHALL CONFORM TO ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS NOTED BELOW. PROPORTIONS OF AGGREGATE TO CEMENTITIOUS PASTE SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.

B. MIX DESIGNS LISTED BELOW SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND APPROVED PRIOR TO USE. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 301. MIX PROPORTIONS SHALL MEET OR EXCEED THE REQUIREMENTS LISTED BELOW FOR THE LOCATIONS NOTED. THE MORE STRINGENT OF THE REQUIREMENTS LISTED SHALL GOVERN. CONCRETE MIX DESIGN SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

C. MAXIMUM SIZE AGGREGATE SHALL BE AS LISTED BELOW. MAXIMUM FLY ASH AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL SHALL BE 20 PERCENT. FLY ASH SHALL BE CLASS F, MEETING ASTM C618 REQUIREMENTS. WATER/CEMENT RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIALS, INCLUDING FLY ASH AND OTHER POZZOLANIC MATERIALS. FLY ASH SHALL NOT BE USED IN CONCRETE EXPOSED TO VIEW.

D. THE USE OF SUPER PLASTICIZERS AND WATER REDUCERS IS ALLOWED, BUT NOT REQUIRED. ALL ADMIXTURES SHALL BE CHLORIDE FREE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

E. ALL CONCRETE SHALL BE PROPORTIONED FOR A MAXIMUM ALLOWABLE UNIT SHRINKAGE OF 0.03% MEASURED AT 28 DAYS AFTER CURING IN LIME WATER AS DETERMINED BY ASTM C157 (USING AIR STORAGE)

F. THE CONTRACTOR SHALL DETERMINE THE SLUMP. SLUMP SHALL CONFORM TO ACI 301. SLUMP SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IF PUMPED, SLUMP SHALL BE MEASURED AT THE DISCHARGED END OF THE PUMP LINE. SLUMP SHALL BE +/- 1 INCHES OF THE SPECIFIED SLUMP.

G. ALL CONCRETE SHALL BE NORMAL WEIGHT AND CONFORM TO THE REQUIREMENTS AS SPECIFIED IN THE TABLE BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS:

	28 DAY COMP. STRENGTH (PSI)	MAX. SIZE AGGREGATE	MAX. W/C RATIO
1. ALL CONCRETE	4000	1"	0.45

H. CONCRETE MIX DESIGNS MUST BE SUBMITTED 15 DAYS PRIOR TO THE START OF THE WORK FOR ENGINEER'S AND OWNER'S TESTING LABORATORY APPROVAL PRIOR TO PLACEMENT OF CONCRETE IN THE PLANT OR FIELD. ANY ADJUSTMENTS IN APPROVED MIX DESIGNS INCLUDING CHANGES IN ADMIXTURES MUST BE SUBMITTED IN WRITING TO THE ENGINEER AND OWNER'S TESTING LABORATORY FOR APPROVAL PRIOR TO USE IN THE FIELD.

I. CONCRETE DESIGNED TO BE PUMPED SHALL BE AS NOTED ON THE MIX DESIGNS AND SHALL HAVE MIX PROPORTIONS COMPATIBLE WITH THE PUMPING PROCESS.

J. SAMPLING AND TESTING OF CONCRETE SHALL BE PERFORMANCED BY INDEPENDENT TESTING AGENCY. OBTAIN SAMPLES AND CONDUCT TESTS IN ACCORDANCE WITH ACI 301. ADDITIONAL SAMPLES MAY BE REQUIRED TO OBTAIN CONCRETE STRENGTHS AT ALTERNATE INTERVALS THAN SHOWN BELOW.

PROVIDE 4 CONCRETE CYLINDERS. TEST 1 CYLINDERS AT 7 DAYS, TEST 2 CYLINDERS AT 28 DAYS, AND HOLD 1 CYLINDER IN RESERVE. RESERVE CYLINDER TO BE USE FOR 56 DAYS BREAK AS DIRECTED BY STRUCTURAL ENGINEER IN SITUATIONS WITH LOW 28 DAYS BREAKS.

K. NO CALCIUM CHLORIDE OR ADMIXTURE CONTAINING CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE WITHOUT STRUCTURAL ENGINEER PRIOR REVIEW AND APPROVAL.

L. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED WITH NOT EXCEPTIONS. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

REINFORCING STEEL

A. ALL REINFORCING SHALL BE NEW BILLET STOCK ASTM A615, GRADE 60. BARS SHALL SECURELY TIE IN PLACE WITH #16 DOUBLE-ANNEALED IRON WIRE. BARS SHALL BE SUPPORTED ON ACCEPTABLE CHAIRS. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES." CONTRACTOR SHALL COORDINATE REINFORCING STEEL PLACEMENT DETAILS AND PROVIDE TEMPLATES FOR PLACING STEEL IN CONGESTED AREAS AS NECESSARY. SHOP DRAWINGS (INCLUDING PLACING PLANS AND ELEVATIONS) SHALL BE SUBMITTED TO, AND REVIEWED BY, THE ARCHITECTS/ENGINEER BEFORE STARTING FABRICATION.

B. WELDED WIRE FABRIC SHALL BE ELECTRICALLY WELDED AND CONFORM TO ASTM A185 (FLAT SHEET), YIELD STRENGTH 65,000 PSI. AN 8" MINIMUM LAP SHALL BE PROVIDE FOR SIDE AND END LAP. WELDED WIRE FABRIC SHALL SUPPORTED IN APPROVED CHAIRS. REFER TO NOTE #6 UNDER SLAB ON GRADE CONSTRUCTION FOR FIBROUS REINFORCING OPTION.

C. NO REINFORCING BARS SHALL BE SPLICED BY WELDING. AT THE CONTRACTOR'S OPTION, MECHANICAL BUTT SPLICING USING AN EXOTHERMIC WELDING PROCESS AND HIGH STRENGTH SLEEVES OR MECHANICAL CONNECTION SPLICING MAY BE USED, PROVIDED THAT THE MECHANICAL SPLICES SHALL BE ICBO APPROVED TO ACHIEVE A MINIMUM TENSILE STRENGTH OF 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. THE MINIMUM TENSILE STRENGTH REQUIREMENT SHALL BE INCREASED TO 160 PERCENT FOR MECHANICAL SPLICES AT THE INTERFACE OF DIAPHRAGMS AND THE LATERAL SYSTEM, AND FOR MECHANICAL SPLICES WITHIN ELEMENTS OF THE LATERAL SYSTEM. SPLICES DEVICES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. REINFORCING BARS SHALL BE LAP SPLICED FOR TENSION UNLESS NOTED OTHERWISE ON THE DRAWINGS. #14 AND #18 BARS SHALL NOT BE LAP SPLICED.

D. WELDING OR TACK WELDING OF REINFORCING BARS TO OTHER BARS OR TOE PLATES, ANGLES ETC, IS PROHIBITED, EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. WHERE WELDING IS APPROVED, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E90I8 OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4.

E. MINIMUM CAST-IN-PLACE CONCRETE COVER OVER REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
   3 INCHES.
2. CONCRETE EXPOSED TO EARTH OR WEATHER:
   1 1/2 INCHES FOR #5 BAR OR SMALLER
   2 INCHES FOR #6 BAR OR LARGER
3. OTHER CONCRETE:
   WALLS - INTERIOR FACE:
   #4 AND #18 BARS - 1 1/2 INCHES
   #11 BARS AND SMALLER - 3/4 INCH

   SLABS AND JOISTS:
   #11 BARS AND SMALLER - 3/4 INCH

   BEAMS AND COLUMNS - TIES, STIRRUPS, SPIRALS:
   INTERIOR FRAMES - 1 1/2 INCHES
   EXTERIOR FRAMES - 2 INCHES

F. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. STAGGER SPLICES WHERE POSSIBLE. USE TENSION SPLICE CLASS "B" UNLESS NOTED OTHERWISE. DOUELS SHALL MATCH SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES, UNLESS NOTED OTHERWISE. LAP LENGTHS EXPRESSED IN NUMBER OF BAR DIAMETERS SHALL BE AS FOLLOWS:

BAR SIZE	NORMAL WEIGHT CONCRETE, F'c (p.s.i.)				
	CLASS	3,000	4,000	5,000	6,000
#6 OR SMALLER	A	44 DIAM.	38 DIAM.	34 DIAM.	31 DIAM.
	B	57 DIAM.	49 DIAM.	44 DIAM.	40 DIAM.
#7 OR LARGER	A	55 DIAM.	47 DIAM.	42 DIAM.	39 DIAM.
	B	71 DIAM.	62 DIAM.	55 DIAM.	50 DIAM.

LAP SPLICE LENGTH NOTES:

1. TABLE IS BASED ON a) CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN ONE BAR DIAMETER (DB); CLEAR COVER NOT LESS THAN ONE DB, AND STIRRUPS OR TIES THROUGHOUT THE LAP SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM, OR b) CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2 DB AND CLEAR COVER NOT LESS THAN ONE DB. FOR ALL OTHER CASES, MULTIPLY TENSION LAP BY 1.5.
2. FOR TENSION REINFORCEMENT WITH MORE THAN 12" OF CONCRETE BELOW, OR FOR VERTICAL REINFORCEMENT, MULTIPLY THE LAP SPLICE LENGTH INDICATED IN THE TABLE BY 1.3. HOWEVER, THE LAP SPLICE LENGTH SHALL NOT BE LESS THAN 12".
3. FOR TENSION REINFORCEMENT IN LIGHTWEIGHT CONCRETE, MULTIPLY LAP SPLICED LENGTH BY 1.3

COMPOSITE METAL DECK

A. THE DESIGN, FABRICATION AND ERECTION OF ALL COMPOSITE METAL DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECK, AND ROOF DECK AS PUBLISHED BY STEEL DECK INSTITUTE (SDI).

B. ALL METAL FLOOR DECK EXCEPT WHERE SHOWN ON PLAN SHALL BE 3" DEEP 20 GAGE COMPOSITE DECK, WITH MIN. PROPERTIES: SP=0.553 IN^3, SN=0.572 IN^3, I = 0.937 IN^4 PLUS 4 1/2" NORMAL WEIGHT CONCRETE, TOTAL SLAB DEPTH 7 1/2". REINFORCED WITH 6X6 W2.9XW2.9 WWF, OR #4 AT 16" O.C. EA WAY PLACED 1" BELOW TOP OF SLAB. SUPPORTED BY #5 CONTINUOS SUPPORT BARS OVER EACH STEEL BEAM AND BETWEEN STEEL BEAMS AT 48" O.C. (MAX.)

C. COMPOSITE METAL DECK SHALL BE COLD FORMED FROM STEEL SHEETS CONFORMING TO ASTM 611 GRADE C WITH A MINIMUM YIELD STRENGTH OF STEEL OF 33 KSI.

D. COMPOSITE METAL DECK SHALL BE GALVANIZED WITH A PROTECTIVE ZINC COATING CONFORMING WITH ASTM A653-G90. TOUCH UP GALVANIZED SURFACES WITH GALVANIZED REPAIR PAINT APPLIED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.

E. THE DECK GAGE AND DEPTH HAVE BEEN SELECTED BASED ON THE WET WEIGHT OF CONCRETE AND THE FINAL DESIGN LOADS ONLY. CONSTRUCTION MATERIALS MAY NOT BE PLACED ON THE BARE METAL DECK.

F. THE FINAL SLAB THICKNESS SHALL BE NO LESS THAN CALLED FOR ON THE PLANS. CONTRACTOR IS TO PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO THE DEFLECTION OF UNSHORED BEAMS AND DECK.

G. METAL DECK UNITS SHALL BE WELDED TO THE STRUCTURAL SUPPORT MEMBER WITH 5/8" DIAMETER PUDDLE WELDS AT EACH END OF SHEETS AND EACH INTERMEDIATE SUPPORT BEGINNING AT EDGE RIB AND AT A MAXIMUM SPACING OF 6" ON CENTER. WELD METAL SHALL PENETRATE ALL LAYERS OF DECK MATERIAL AT END LAPS AND SIDE JOINTS AND SHALL BE COMPLETELY FUSED TO THE SUPPORTING MEMBER. SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BY WELDING (ON 18 GAUGE OR HEAVIER DECK ONLY), OR SHEET METAL SCREWS (#8'S OR LARGER), SO THAT THE SPACING BETWEEN FASTENERS AND BETWEEN THE FIRST FASTENER AND SUPPORT DOES NOT EXCEED 12 INCHES.

H. PROVIDE A MINIMUM END BEARING OF 2" FOR ALL DECK SUPPORTS. ALIGN FLUTES AND BUTT DECK AT SUPPORT.

I. FOR ALL OPENINGS IN METAL DECK NOT FRAMED WITH STRUCTURAL STEEL AND GREATER THAN 10" IN WIDTH IN EITHER DIRECTION, PROVIDE (2)-#4'S X OPENING WIDTH PLUS 2'-0" IN THE DIRECTION PERPENDICULAR TO DECK RIB EACH SIDE OF OPENINGS WITH BARS BEARING ON TOP OF RIBS AND (2)-#5'S X DECK SPAN PLUS 2'-0" EACH SIDE OF OPENING CHAIRED UP FROM BOTTOM OF NEAREST DECK RIB RUNNING BESIDE OPENING FROM SUPPORT TO SUPPORT UNLESS HEAVIER REINFORCEMENT IS INDICATED ON DRAWINGS.

J. PROVIDE 3/4" CLEAR COVER TO ALL TEMPERATURE SLAB REINFORCEMENT USING HIGH CHAIRS. HIGH CHAIRS SHALL BE PLACED OVER EACH BEAM AND GIRDER AND A MAXIMUM OF 48" ON CENTER PERPENDICULAR TO DECK SPAN DIRECTION. HIGH CHAIR SHALL BE MANUFACTURED SPECIFICALLY FOR METAL DECK (CRSI TYPE CH).

K. ANY ADDITIONAL CONCRETE TOPPING SPECIFIED OVER THE COMPOSITE SLAB SHALL BE PLACED AFTER THE SLAB HAS REACHED 75% OF THE 28 DAYS DESIGN STRENGTH.

L. METAL DECK SPAN SHALL NOT EXCEED THE MAXIMUM CENTER TO CENTER SPANS AS REQUIRED BY SDI CRITERIA, WHERE POSSIBLE, ALL METAL DECK SHALL EXTEND OVER THREE OR MORE SUPPORTS. TWO SPAN DECK SHALL BE USED ONLY WHERE DECK LAYOUT DOES NOT PERMIT THE USED OF THREE SPANS. SINGLE SPAN DECK IS NOT PERMITTED.

M. A BLEND OF STEEL AND POLYPROPILENE FIBERS IS AN ACCEPTABLE ALTERNATIVE TO WELDED WIRE FABRIC. FIBERS SHALL BE AS MANUFACTURED BY SYNTHETIC INDUSTRIES OR APPROVED EQUAL APPLIED AT A RATE OF 24 LBS/CY.

N. NO CONDUIT OF ANY KIND SHALL BE PERMITTED TO RUN HORIZONTALLY WITHIN THE SLAB. CONDUIT MUST BE RUN BELOW THE STRUCTURAL MEMBERS AND COME UP VERTICALLY THROUGH SLAB WHERE NECESSARY. NO CONDUIT SHALL BE PERMITTED TO RUN THROUGH ANY STRUCTURAL MEMBERS.

COLD FORMED METAL FRAMING

A. DESIGN OF COLD FORMED METAL FRAMING SHALL CONFORM TO THE LATEST EDITION OF "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS (AISI).

B. MATERIALS: STUDS, RUNNERS AND ANGLES SHALL MEET THE REQUIREMENTS OF ASTM C955 WITH MINIMUM YIELD STRENGTH AS FOLLOWS:

16, 14, AND 12 GAGE STUDS	50 KSI
22, 20, AND 18 GAGE STUDS	33 KSI
RUNNERS	33 KSI

C. GALVANIZED FINISH SHALL COMPLY WITH ASTM A653/A653M WITH A G90 COATING. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PROTECTIVE PAINT FOR CORROSION RESISTANCE.

D. THE FABRICATOR SHALL FURNISH A STRUCTURAL SUBMITTAL BEARING THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. THIS SUBMITTAL SHALL BE CHECKED BY THE CONTRACTOR FOR COMPLETENESS AND CONTENT PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. THE SUBMITTAL SHALL INCLUDE COMPONENT DETAILS AND SYSTEM LAYOUT DRAWINGS, IT SHALL IDENTIFY THE PROJECT LIST LOADING AND OTHER CRITERIA. THE DRAWINGS SHALL IDENTIFY AND LOCATE COMPONENTS AND SHALL SPECIFY MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS & ALL OTHER NECESSARY FABRICATION AND ERECTION INFORMATION. THE SUBMITTAL SHALL INCLUDE CALCULATIONS VERIFYING ITS ADEQUACY TO RESIST THE LOADS INDICATED ON THE CONSTRUCTION DOCUMENTS. FABRICATION SHALL NOT COMMENCE UNTIL THIS REVIEW IS COMPLETED.

E. COLD FORMED STEEL FRAMING INCLUDE BUT NOT LIMITED TO WALLS, BRACING, CEILINGS, FASCIAS, SOFFITS AND GLASSING SUPPORT FRAMING.

EXISTING STRUCTURE

A. EXISTING STRUCTURAL FRAMING, DIMENSIONS AND MEMBER SIZES ARE FROM AVAILABLE AS-BUILT DRAWINGS AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO FABRICATION. THE CONTRACTOR SHALL VERIFY THE ACTUAL CONFIGURATION OF EXISTING CONSTRUCTION AND THE SOUND CONDITION OF THE STRUCTURE BEFORE BEGINNING WORK. ANY DISCREPANCIES OR UNSOUND CONDITION SHALL BE REPORTED TO THE ARCHITECT AND OWNER FOR RESOLUTION BEFORE BEGINNING WORK.

B. TEMPORARY SHORING AND BRACING MAY BE NECESSARY IN ORDER TO PERFORM THE NECESSARY STRUCTURAL MODIFICATIONS TO THE EXISTING STRUCTURE SHOWN ON THE STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS. THE CONTRACTOR MUST RETAIN A LICENSED STRUCTURAL ENGINEER WHO SHALL INVESTIGATE WHERE THIS TEMPORARY SHORING/BRACING IS REQUIRED, AND SHALL DESIGN THIS TEMPORARY SHORING/BRACING.

STRUCTURAL SHEET INDEX

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STRUCTURAL GENERAL NOTES

SCALE:	As indicated
DRAWN BY:	S.L.
CHECK BY:	J.H.
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

S001

STRUCTURAL STEEL

A. MATERIALS
1. ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING, AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION A6/A6M-04A.
2. CLEARLY MARK THE GRADE OF THE STEEL ON EACH PIECE WITH A DISTINGUISHING MARK VISIBLE FROM FLOOR SURFACE, FOR THE PURPOSE OF FIELD INSPECTION OF PROPER GRADE OF STEEL. UNLESS NOTED OTHERWISE ON THE DRAWINGS STRUCTURAL STEEL SHALL BE AS FOLLOWS:

A. ALL WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992. ASTM A572 GRADE 50 IS ACCEPTABLE AS A SUBSTITUTE FOR A992.
B. EDGE ANGLES AND BENT PLATES: ALL EDGE ANGLES AND BENT PLATES SHALL CONFORM TO ASTM A36
C. ANGLES HANGERS AND BRACES (KICKERS): ALL HANGERS AND BRACES (KICKERS) SHALL CONFORM TO ASTM A36
D. WIDE FLANGE COLUMNS SHALL CONFORM TO ASTM A992. ASTM A572 GRADE 50 IS ACCEPTABLE SUBSTITUTE FOR A992.
E. PIPE COLUMN SHALL CONFORM TO ASTM A53 (TYPES E OR S), GRADE B OR ASTM A501
F. ALL SQUARE AND RECTANGULAR HSS SECTIONS SHALL CONFORM TO ASTM A500, GRADE B.
G. ALL BASE PLATE SHALL CONFORM TO ASTM A36.
H. ALL CONNECTION MATERIAL, EXCEPT AS NOTED HERE OR ON THE DRAWINGS, INCLUDING BEARING PLATES, GUSSET PLATES, STIFFENER PLATES, FILLER PLATES, ETC. SHALL BE A36 STEEL UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZE ARE COMPATIBLE WITH THE CONNECTED MEMBERS.
I. ANY OTHER STEEL NOT INDICATED OTHERWISE SHALL CONFORM TO ASTM A36.

B. FABRICATION
1. FABRICATE AND ASSEMBLE STEEL STRUCTURAL ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE.
2. DIMENSIONAL TOLERANCES OF FABRICATED STRUCTURAL STEEL SHALL CONFORM TO SECTION 6.4 OF THE AISC CODE OF STANDARD PRACTICE UNLESS NOTED OTHERWISE.
3. CAMBER

A. CAMBER OF STEEL STRUCTURAL MEMBERS IS INDICATED ON THE DRAWINGS.
B. WHERE POSSIBLE, CAMBER ON BEAMS SHALL BE APPLIED BY THE COLD BEND PROCESS.
C. THE LOCAL APPLICATION OF HEAT MAY BE USED TO INTRODUCED OR CORRECT CAMBER, CURVATURE, OR STRAIGHTNESS PROVIDED THE TEMPERATURE OF THE HEATED AREA AS MEASURED BY THE TEMPERATURE CRAYONS OR OTHER APPROVED MEANS, DOES NOT EXCEED 1200 F.
D. WHERE INDICATED ON THE DRAWINGS IN A CAMBER DIAGRAM, CANTILEVER OR DOUBLED CANTILEVER BEAMS SHALL BE CAMBERED FOR THE MAIN SPAN AND CANTILEVER END SEPARATELY, EITHER BY STAGED COLD BENDING PROCESS OR BY THE APPLICATION OF HEAT.
E. CAMBER INDICATED ON DRAWINGS ARE INTENDED TO BE FINAL CAMBERS AT THE TIME OF ERECTION. THE FABRICATOR SHALL ACCOUNT FOR CAMBER LOSE IN THE INITIAL CAMBER OPERATION.
F. SPECIFIED CAMBER FOR BEAMS AT THE TIME OF ERECTION SHALL BE WITHIN A TOLERANCE OF MINUS ZERO TO PLUS ONE-EIGHTH INCH FOR EACH TEN FEET OF MEMBER LENGTH.
4. SPLICING OF STRUCTURAL STEEL MEMBERS IN THE SHOP OR THE FIELD IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON APPROVED SHOP DRAWINGS WILL BE REJECTED.
5. COMPRESSION JOINTS WHICH DEPEND ON CONTACT BEARING AS PART OF SPLICE CAPACITY SHALL HAVE THE BEARING SURFACES OF THE BEARING SURFACES OF INDIVIDUAL FABRICATED PIECES PREPARED IN A COMMON PLANE BY MILLING, SAWING OR OTHER SUITABLE MEANS.
6. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL MEMBERS.

C. ERECTION
1. ERECTION TOLERANCES OF ANCHORS BOLTS, EMBEDDED ITEMS, AND ALL STRUCTURAL STEEL UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS SHALL CONFORM TO AISC CODE OF STANDARD PRACTICE.
2. THE DESIGN OF ALL TEMPORARY SHORING AND BRACING NOT SHOWN ON THE DRAWING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TEMPORARY SHORING AND BRACING IS TO BE DESIGNED BY A FLORIDA PROFESSIONAL ENGINEER.
3. FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS TO STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF ENGINEER FOR EACH SPECIFIC CASE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES ESPECIALLY WITH RESPECT TO TEMPERATURE DIFFERENTIALS AND ERECTION TOLERANCES.

D. GALVANIZING
1. HOT DIP GALVANIZING AFTER FABRICATION ALL STRUCTURAL STEEL ITEMS AND THEIR CONNECTIONS PERMANENTLY EXPOSED TO THE OUTSIDE, WHETHER SPECIFIED ON THE DRAWINGS OR NOT.
2. GALVANIZE ALL NUTS, BOLTS AND WASHERS USED IN THE CONNECTION OF SUCH STEEL. FIELD WELDED CONNECTIONS SHALL HAVE WELDS PROTECTED WITH "Z.R.C. COLD GALVANIZING COMPOUND" AS MANUFACTURED BY Z.R.C. PRODUCT COMPANY.
3. HOT DIP GALVANIZE ALL PERIMETER AND / OR EXTERIOR TILT-UP WALL PANEL EMBEDDED ITEMS SUCH AS BUT NOT LIMITED TO PLATES, HEADED STUD ANCHORS, AND DOVETAIL ANCHORS TO G90 GALVANIZED WHETHER SPECIFIED ON DRAWINGS OR NOT (TYPICAL).
4. FIELD PAINT ALL DAMAGED GALVANIZED STEEL WITH GALV. REPAIR PAINT.

E. WELDING
1. STRUCTURAL STEEL SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. ALL WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH AWS D1.1. WELDS SHOWN IN THE DRAWINGS ARE THE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. THE MINIMUM WELD SIZE SHALL BE 3/16 INCH. FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. WHERE SHOWN, PROPER FIELD WELDING PER AWS D1.1 SHALL BE USED. WHERE NO FIELD WELDING SYMBOLS ARE SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS.
2. ALL PARTIAL PENETRATION GROOVE WELD SIZES SHOWN ON THE DRAWING REFER TO EFFECTIVE THROAT THICKNESS. ALL WELDS SHALL BE MADE USING LOW HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH PER AWD D1.1 (MINIMUM 70 KSI). LOW HYDROGEN SMALL ELECTRODES SHALL BE USED WITHIN FOUR HOURS OF OPENING THEIR HERMETICALLY SEALED CONTAINERS, OR SHALL BE REDRIED PER AWS D1.1, SECTION 4.5. ELECTRODES SHALL BE REDRIED NO MORE THAN ONE TIME, AND ELECTRODES THAT HAVE BEEN WET SHALL NOT BE USED.
3. ALL COMPLETE-PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED UPON COMPLETION OF THE CONNECTION, EXCEPT PLATE LESS THAN OR EQUAL TO 1/4 INCH THICK SHALL BE MAGNETIC PARTICLE TESTED. REDUCTION IN TESTING MAY BE MADE IN ACCORDANCE WITH THE BUILDING CODE WITH APPROVAL OF THE ENGINEER.

F. STRUCTURAL BOLTS
1. ALL BOLTS IN STRUCTURAL CONNECTIONS SHALL CONFORM TO ASTM A325 TYPE 1, HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. MINIMUM BOLT DIAMETER SHALL BE 3/4 INCHES.
3. UNLESS NOTED OTHERWISE IN THE DRAWINGS OR IN THESE GENERAL NOTES ALL BOLTED CONNECTION SHALL BE BEARING TYPE CONNECTIONS USING STANDARD HOLES WITH THREAD INCLUDED IN THE PLANES.
4. HIGH STRENGTH BEARING BOLTS SHALL BE TIGHTENED USING AN IMPACT WRENCH TO A SNUG TIGHT CONDITION. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS ATTAINED WITH A FEW IMPACT OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.
5. ALL BOLTS SHALL BE WELL LUBRICATED AT THE TIME OF INSTALLATION. DRY, RUSTY BOLTS WILL NOT BE ALLOWED.
6. ALL BOLTS SHALL BE NEW AND SHALL NOT BE REUSED.

G. SHEAR CONNECTORS (HEADED STUDS)
1. ALL SHEAR CONNECTOR STUDS SHALL BE 3/4" INCH IN DIAMETER UNLESS NOTED OTHERWISE. ACCEPTABLE TYPES SHALL BE TRU-WELD (ICBO #3141) OR "NELSON" (ICBO #9614). SHEAR CONNECTOR STUDS SHALL BE AUTOMATICALLY END WELDED IN FIELD FOR COMPOSITE BEAMS AND IN SHOP FOR EMBED PLATES WITH EQUIPMENT RECOMMENDED BY MANUFACTURER OF STUDS. STEEL STUD MATERIAL, WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH AWS D1.1. HAND WELDING OF STUDS IS NOT ACCEPTABLE.

H. CONCRETE ANCHOR AND SOLID GROUTED MASONRY ANCHOR
1. EXPANSION BOLTS SHALL NOT BE UTILIZED.
2. EPOXY ANCHORS AND REINFORCING STEEL SHALL BE PROVIDED WHERE NOTED ON DRAWINGS TO PROVIDE ANCHORAGE TO EXISTING HARDENED CONCRETE OR SOLID GROUTED MASONRY. EPOXY ADHESIVE ANCHORING SYSTEM FOR CONCRETE SHALL BE HILTI HIT-HY 200 WITH HILTI HIT-Z ROD OR APPROVED EQUAL. EPOXY ADHESIVE ANCHORING SYSTEM FOR SOLID GROUTED MASONRY SHALL BE HILTI HIT-HY 270 OR APPROVED EQUAL. ANCHORS SHALL BE ASTM A36 THREADED ROD UNLESS NOTED OTHERWISE. HOLES SHALL BE DRILLED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATION'S. THE MINIMUM EMBEDMENT DEPTH SHALL BE 10 BOLTS DIAMETERS FOR ANCHORS AND 14 BOLTS DIAMETERS FOR REINFORCING UNLESS NOTED OTHERWISE ON DRAWINGS. HOLES FOR REINFORCING AND ANCHORS SHALL BE DRILLED WITH ROTARY IMPACT HAMMER OR EQUIVALENT METHOD TO PRODUCE A HOLE WITH A ROUGH INSIDE SURFACE. NO REINFORCEMENT SHALL BE CUT TO INSTALL ANCHORS. EPOXY ADHESIVE SHALL BE MIXED, APPLIED AND CURED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. ALL PLACEMENT AND CURING SHALL BE CONDUCTED WITH CONCRETE AND AIR TEMPERATURE ABOVE 50 DEGREES. APPLY EPOXY ONLY TO DRY, CLEAN CONCRETE. PROVIDE POSITIVE PROTECTION SO DOWELS ARE NOT DISTURBED DURING THE CURING PERIOD. FOR INSTALLATION IN MASONRY, REFER TO MANUFACTURERS FOR ADDITIONAL REQUIREMENT'S.

I. ANCHORS BOLTS
1. ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 WITH CLASS 1A TREADS UNLESS NOTED OTHERWISE ON DRAWINGS. FURNISH HARDENED PLATE WASHERS, LOCK WASHERS AND MATCHING HEAVY HEX NUTS FOR SECURING THE BASE PLATE TO THE ANCHOR RODS.
2. ALL NUTS USED WITH ANCHOR BOLTS SHALL BE HEX HEAD CONFORMING TO ASTM A563.
3. WASHERS FOR ALL BASE PLATES SHALL BE 1/4" THICK PLATES EXTENDING MINIMUM 1" FROM EDGE OF BASE PLATE HOLES ON EACH SIDE WITH HOLES 5/16" LARGER THAN THE NOMINAL BOLT DIAMETER. WASHERS SHALL COMFORT TO A36 STEEL..
4. ALL ANCHOR BOLTS SET IN CONCRETE SHALL UTILIZE 1/8" THICK STEEL TEMPLATES SAME SIZE THAT BASE PLATE. TEMPLATES SHALL BE DETAILED ON THE SHOP DRAWINGS.
5. ANCHOR RODS INSTALLATION SHALL BE COORDINATED WITH REINFORCING AND FORMWORK. AFTER BASE INSTALLATION, ANCHOR RODS NUTS SHALL BE INSTALLED TO A SNUG TIGHT CONDITION. NO HEATING OR BENDING OF THE ANCHOR RODS IS PERMITTED. HOLES IN THE BASE MATERIAL SHALL NOT BE ENLARGED.

J. NON SHRINK GROUT FOR BASE PLATES AND BEARING PLATES
1. GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE NON METALLIC, SHRINKAGE RESISTANCE, PREMIXED, NON CORROSIVE, NON STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUND.
2. TWENTY EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT TUBE TESTS SHALL BE 6,000 PSI (MIN.).
3. GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND FOR GROUT CONFINEMENT. GROUT SHOULD BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. MINIMUM THICKNESS OF GROUT UNDER ALL BASE PLATES AND BEARING PLATES SHALL BE 1", UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.

K. BASE PLATES AND EMBEDED PLATES
1. UNLESS NOTED OTHERWISE ON THE DRAWINGS BASE PLATES AND BEARING PLATES SHALL BE WELDED ALL AROUND TO THE COLUMN WITH MINIMUM FILLET WELD AS SPECIFIED IN AISC.
2. GROUT BASE PLATES 3 DAYS BEFORE CONCRETE POUR OF FIRST ELEVATED SLAB.
3. ALL THE EXTERIOR BASE PLATES, ANCHOR BOLTS, NUTS, WASHERS AND EMBEDED PLATES SHALL BEHOT-DIP GALVANIZED AFTER FABRICATIONS PER ASTM G90. CLEAN AND FIELD TOUCH-UP WITH GALV. REPAIR PAINT.

L. CONNECTIONS
1. TYPICAL CONNECTION DETAILS ARE INDICATED ON THE DRAWINGS
2. MINIMUM CONNECTION SHALL BE A TWO BOLT CONNECTION USING 3/4 INCH DIAMETER A325 BOLTS IN SINGLE SHEAR.
3. ALL HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED AND INSPECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. THE CRITERIA FOR SNUG-TIGHT CONNECTIONS SHALL APPLY TO ALL CONNECTIONS UNLESS NOTED OTHERWISE AS SLIP CRITICAL. SLIP CRITICAL CONNECTIONS SHALL USE LOAD INDICATOR WASHERS OR TENSION CONTROLLED BOLTS. ALL BOLTS SHALL BE STANDARD BOLTS UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SELECTION OF OPTIONAL DETAILS SHOWN ON THE DRAWINGS.
5. WHEN CONDITIONS VARY FROM THOSE SHOWN IN THE "TYPICAL DETAILS" OR WHEN THE CONTRACTOR WANTS TO USE ALTERNATE DETAILS SUBMIT SIGNED AND SEALED CALCULATIONS FOR ENGINEER'S APPROVAL.

M. STEEL STAIRS
1. THE STEEL STAIR FRAMING, RAILING AND CONNECTION DESIGN TO BUILDING SHALL BE THE RESPONSIBILITY OF THE STAIRWAY SUPPLIER. PERFORMANCE BY OR UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA.
2. ALL STAIRWAY STEEL SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.
3. THE MINIMUME SIZE FOR ALL STAIR STRINGERS SHALL BE C12X20.7 HANDRAIL AND POST SHALL BE 1 1/2" DIAMETER SCHEDULE 80 U.N.O. BY ARCHITECT.

SHOP DRAWINGS

A. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL. ALL SUBMITTAL SHALL BE PROVIDED FOR THE ENGINEER REVIEW A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION OR REQUIRED DELIVERY OF MATERIALS. THE ENGINEER SHALL BE PROVIDED A MINIMUM OF (10) BUSINESS DAY TO REVIEW SUBMITTALS. THE CONTRACTOR SHALL MAKE NO CLAIMS FOR DELAY FOR SUBMITTALS NOT PROVIDED IN ACCORDANCE WITH THIS REQUIRED REVIEW PERIOD OR NOT OTHERWISE SUBMITTED IN A TIMELY MANNER. SUBMITTALS SHALL INCLUDE ONE REPRODUCIBLE AND ONE COPY: REPRODUCIBLE WILL BE MARKED AND RETURNED.

B. THE CONTRACTOR IS TO REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR IS TO STAMP EACH SUBMITTAL VERIFYING THAT THE FOLLOWING IS ADDRESSED:

1. SHOP DRAWINGS IS REQUESTED.
2. THE SHOP DRAWING IS BASED ON THE LATEST DESIGN.
3. THE ARCHITECT'S AND STRUCTURAL ENGINEER'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
4. THE WORK IS COORDINATED AMONG ALL CONSTRUCTION TRADES.
5. REVISIONS FROM PREVIOUS SUBMITTALS ARE CLEARLY MARKED BY CIRCLING OR CLOUDS.
6. SUBMITTAL IS COMPLETED.

C. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE THEY SHALL BE VERIFIED BY THE CONTRACTOR.

D. SHOP DRAWINGS SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHING AND INSTALLED, AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHOD. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWINGS SUBMITTAL AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

E. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
- STRUCTURAL STEEL
- REINFORCING STEEL
- COMPOSITE METAL DECK
- CONCRETE MIX DESIGN
- COLD FORMED METAL FRAMING (*)

ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

F. THE STEEL FABRICATOR SHALL NOT OUT SOURCE THE STRUCTURAL STEEL DETAILING OVER SEAS, THE STEEL FABRICATOR SHALL HIRE A QUALIFIED DETAILER WITH A MINIMUM OF 10 YEARS EXPERIENCE LOCATED IN UNITED STATES AND THE DETAILING WORK SHALL BE PERFORMED IN THE UNITED STATES. THE SHOP DRAWING SHALL BE SUBMITTED ELECTRONICALLY IN BLACK AND WHITE PDF OR "PDF" FORMAT.

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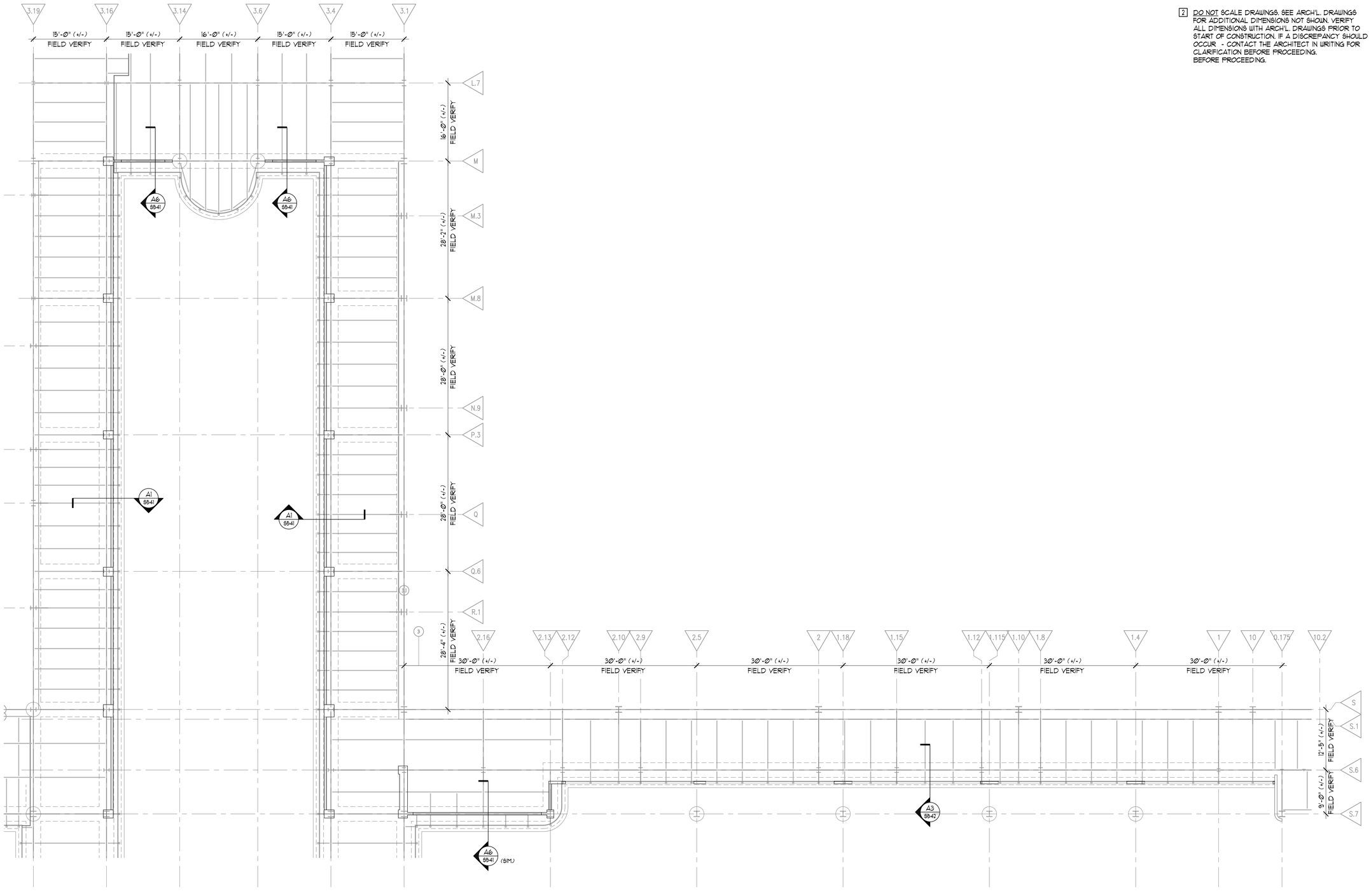
S002



A4 / S131 — FRAMING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. SEE SHEETS S001 AND S002 FOR STRUCTURAL GENERAL NOTES.
2. DO NOT SCALE DRAWINGS. SEE ARCH'L. DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION. IF A DISCREPANCY SHOULD OCCUR - CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING. BEFORE PROCEEDING.

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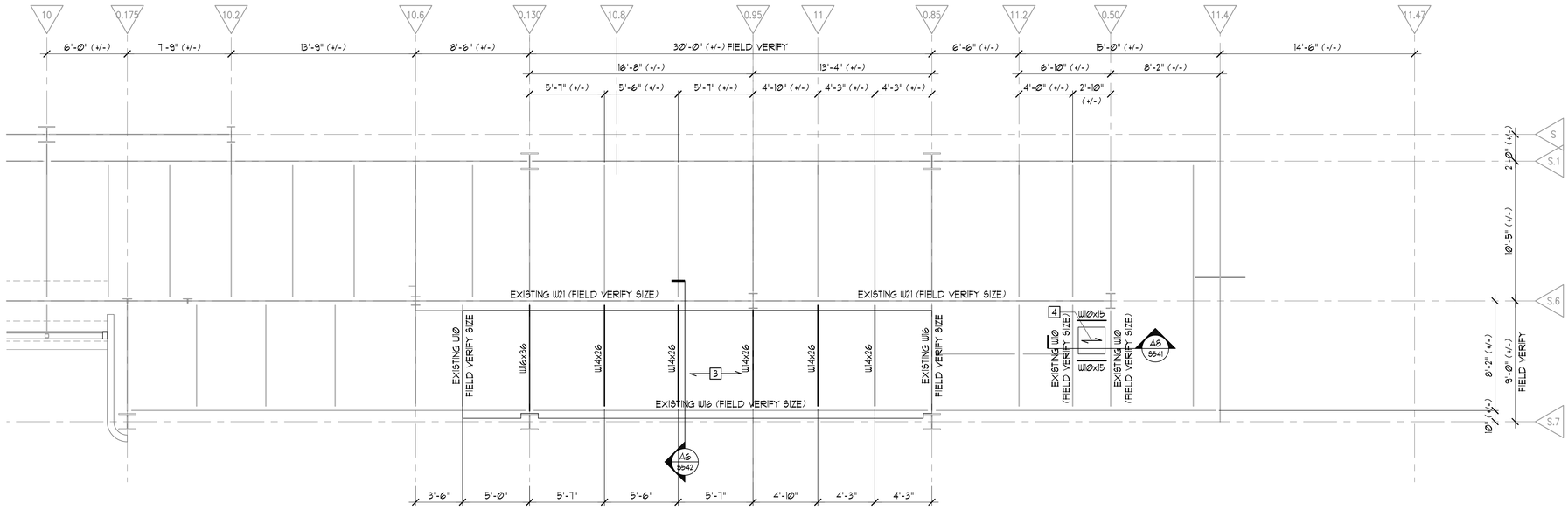
S131



D4
S132

FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

IMPORTANT NOTE:
AFTER DEMOLITION, NOTIFY THE STRUCTURAL ENGINEER OF RECORD TO MAKE A SITE VISIT TO VERIFY EXISTING FRAMING AND CONNECTIONS PRIOR TO FABRICATION OF NEW STEEL.

PLAN NOTES:

1. SEE SHEETS S001 AND S002 FOR STRUCTURAL GENERAL NOTES.
2. DO NOT SCALE DRAWINGS. SEE ARCH'L. DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION. IF A DISCREPANCY SHOULD OCCUR - CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
3. TYPICAL SECOND FLOOR CONSTRUCTION: 1 1/2" (MIN.) THICK NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH #4's SPACED AT 12"O.C. (MAX.) EACH WAY, OVER 3" (DEEP), 20 GAGE (GALV.) COMPOSITE METAL DECK (MINIMUM TWO SPAN CONTINUOUS) (4 1/2" + 3" = 7 1/2" TOTAL SLAB THICKNESS) PROVIDE 3/4"DIA.X5 1/2"LG. HEADED STUD ANCHORS SPACED AT 12"O.C. (MAX.) ALONG TOP FLANGE OF NEW STEEL BEAM CENTERED ALONG CENTER LINE OF BEAM. COORDINATE ANY AND ALL SLAB SLOPES, DEPRESSIONS AND LIMITS OF WITH ARCH'L. DRAWINGS (FOR ACTUAL TOP OF SLAB ELEVATIONS, SEE ARCH'L. AND / OR CIVIL DRAWINGS) SEE DETAILS FOR ADDITIONAL SLAB REINFORCING REQUIREMENTS.
4. TYPICAL INFILL FLOOR CONSTRUCTION: 1 1/2" (MIN.) THICK NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH #4's SPACED AT 12"O.C. (MAX.) EACH WAY, OVER 3" (DEEP), 20 GAGE (GALV.) (4 1/2" + 3" = 7 1/2" TOTAL SLAB THICKNESS) FIELD VERIFY SIZE AND LOCATION OF EXISTING CONCRETE SLAB OPENING.

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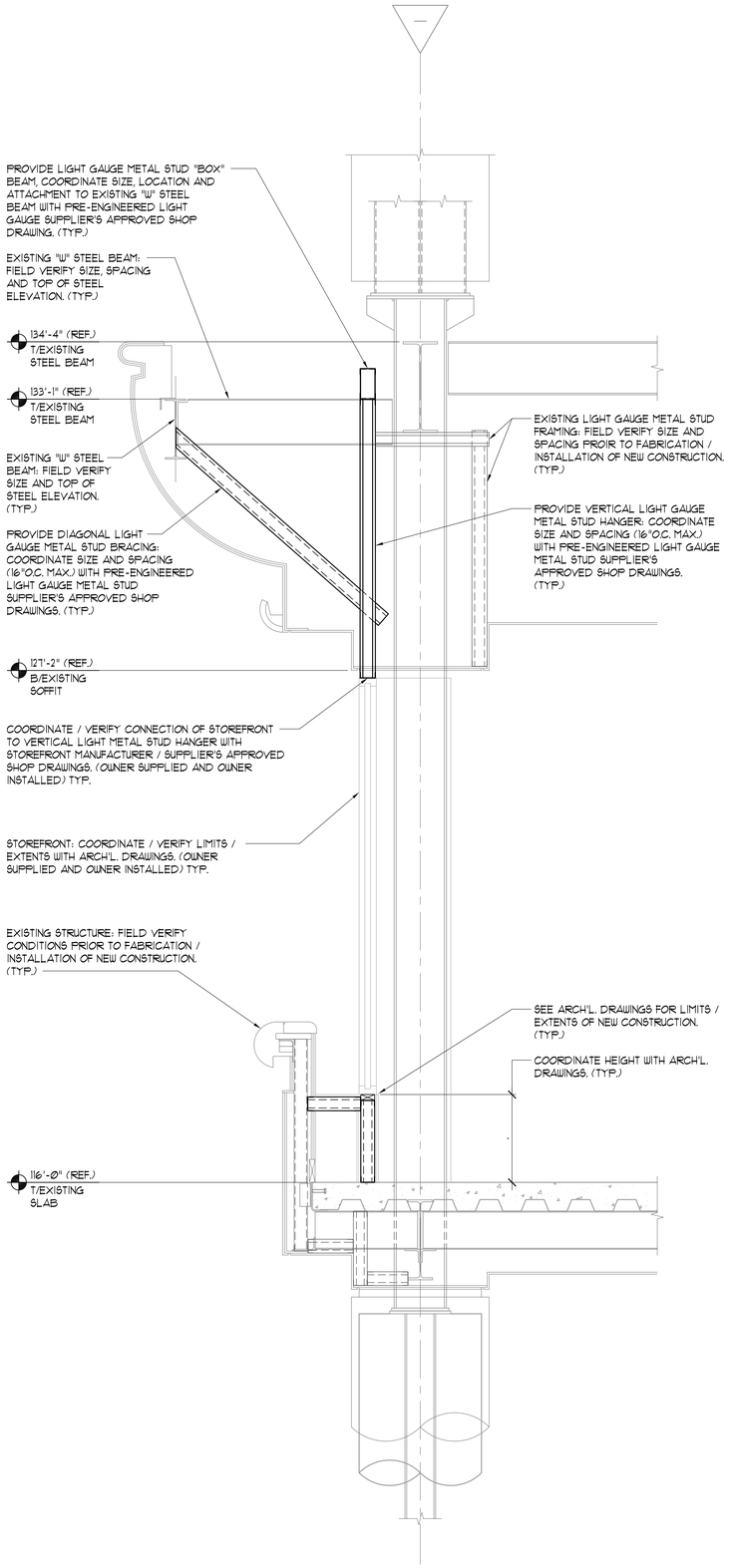
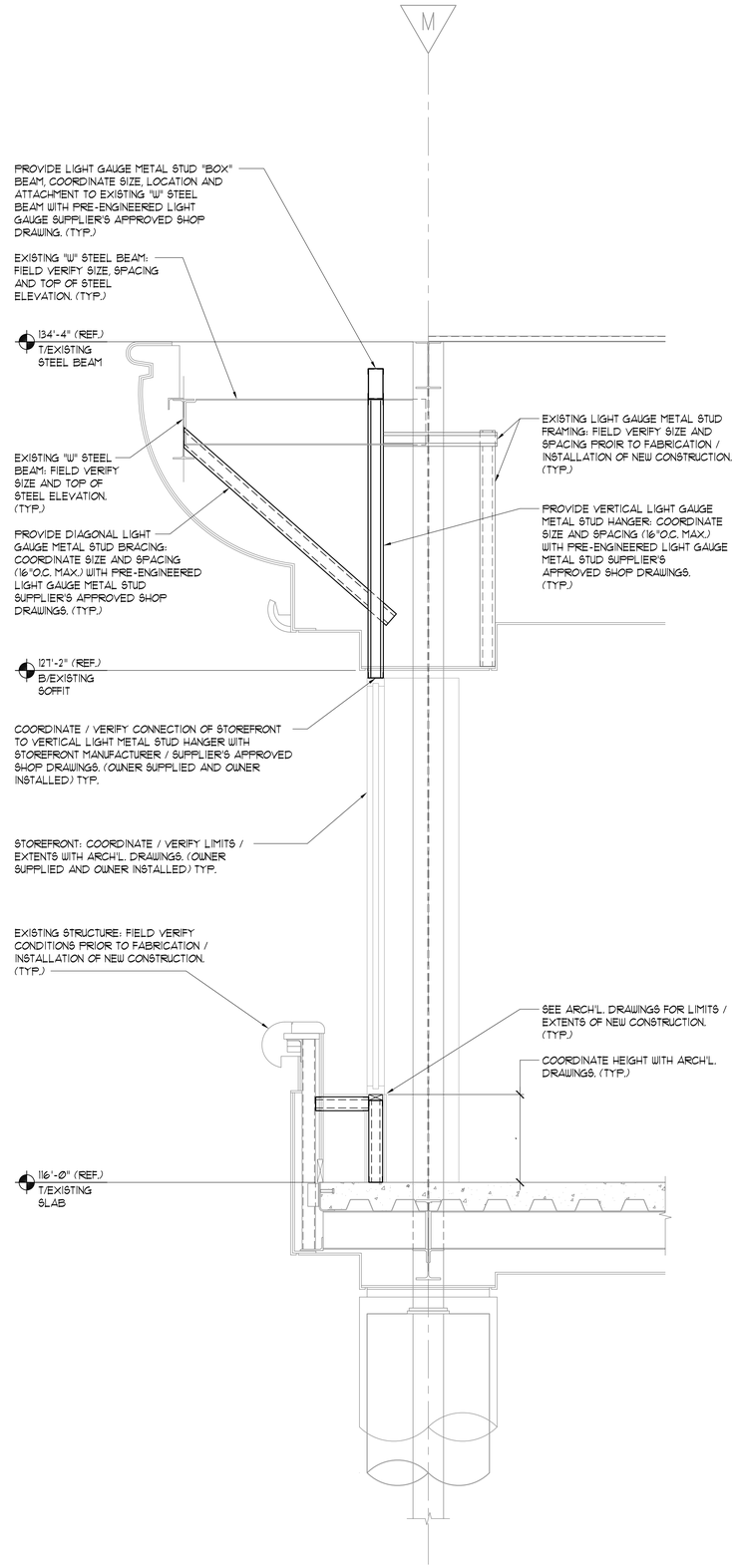
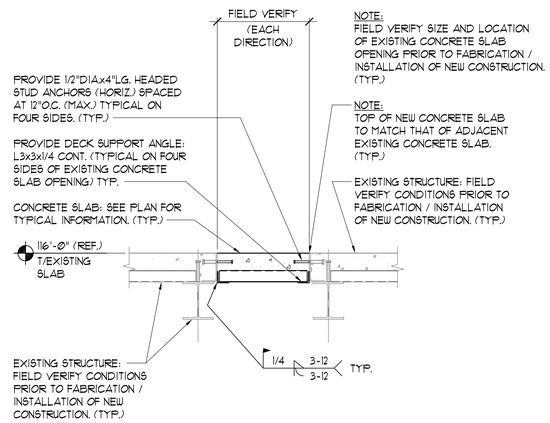


A1 / S541 SECTION
SCALE: 3/4" = 1'-0"



A6 / S541 SECTION
SCALE: 3/4" = 1'-0"



A8 / S541 SECTION
SCALE: 3/4" = 1'-0"

rhodes + brito
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Consultants

ASD
ADVANCED STRUCTURAL DESIGN
To the best of the engineer's knowledge, the plans and specifications comply with the applicable Florida Building Code.
1035 S. Semoran Blvd. Suite 1019, Winter Park, FL. 32792
Phone: 407-677-5836 - Fax: 407-677-5894
Florida Engineering Business Number: 25893
Jamshid Hakimian, P.E. Florida No: 46613

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Orange County Convention Center

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9800 International Drive ,
Orlando, FL 32819

Seal

Jamshid Hakimian, P.E.
Florida No: 46613

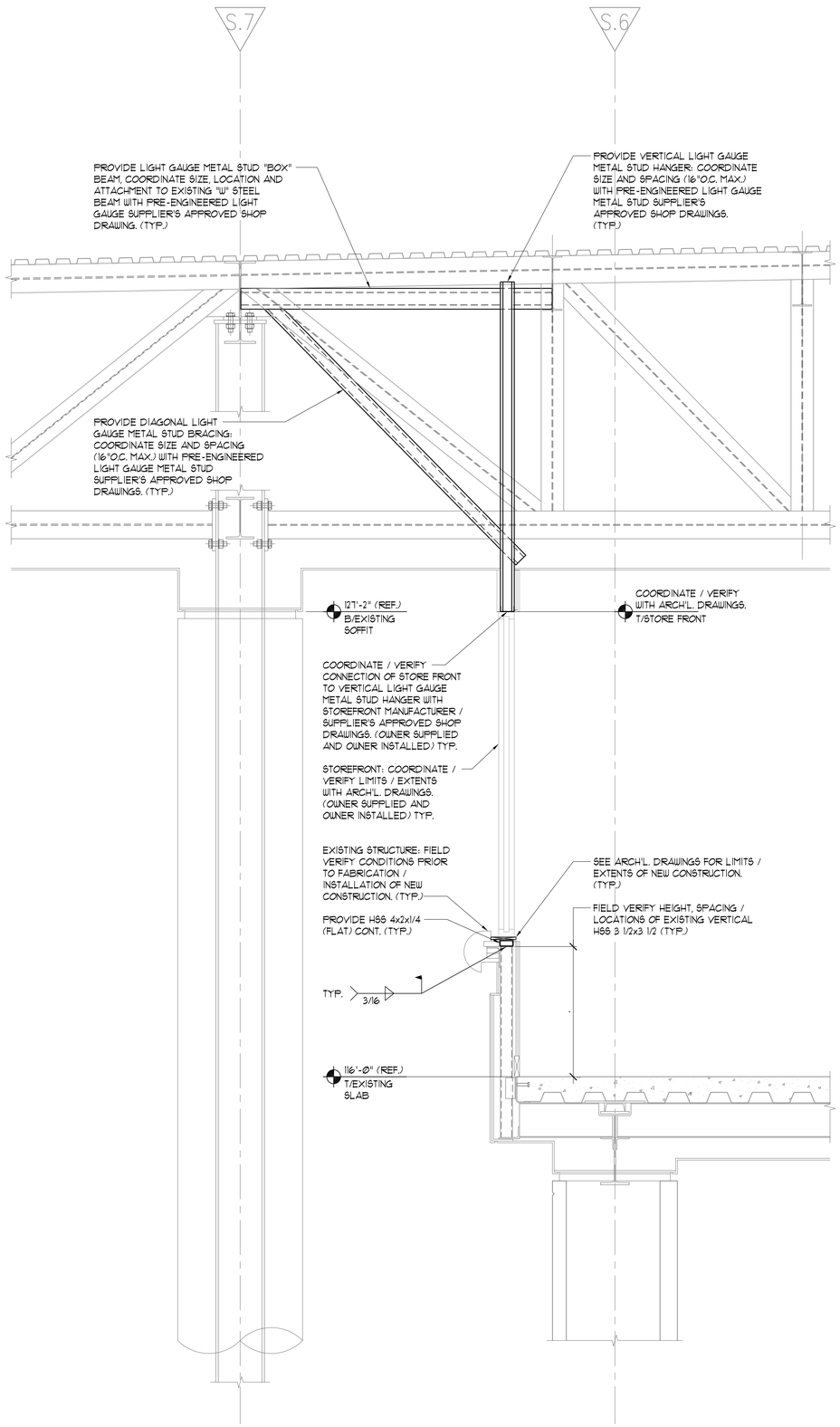
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

SECTIONS AND DETAILS

SCALE:	As indicated
DRAWN BY:	S.L.
CHECK BY:	J.H.
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

S541

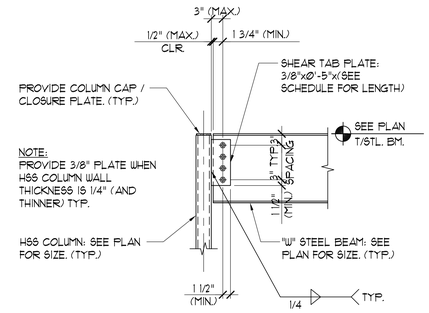


A3 / S542 SECTION

SCALE: 3/4" = 1'-0"

SINGLE PLATE - BEAM TO COLUMN (WF OR HSS) OR CONCRETE EMBED CONNECTIONS USING 3/4" DIA A325-N BOLTS FOR "SIMPLE" BEAMS WITH SHEAR ONLY

MIN. CONNECTION FOR BEAM SIZES SHOWN	MAX. CONNECTION FOR BEAM SIZES SHOWN	NUMBER OF BOLT SPACES	CONNECTION SHEAR VALUE KIPS PLATE = 3/8" w = 1/4	LENGTH OF PLATE
W8, W10, W12	W8, W10	(1) AT 3" = 0'-3"	19.8	0'-6"
W12, W14	W12, W14	(2) AT 3" = 0'-6"	31.8	0'-9"
W16, W18	W16	(3) AT 3" = 0'-9"	42.4	1'-0"
W21, W24	W18	(4) AT 3" = 1'-0"	53.0	1'-3"

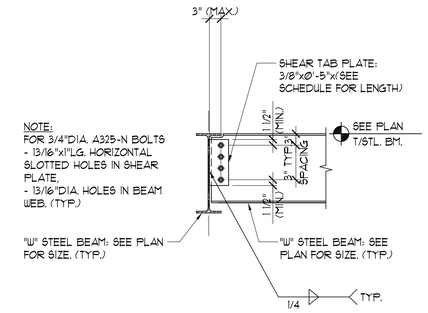


E5 / S542 SECTION

SCALE: 3/4" = 1'-0"

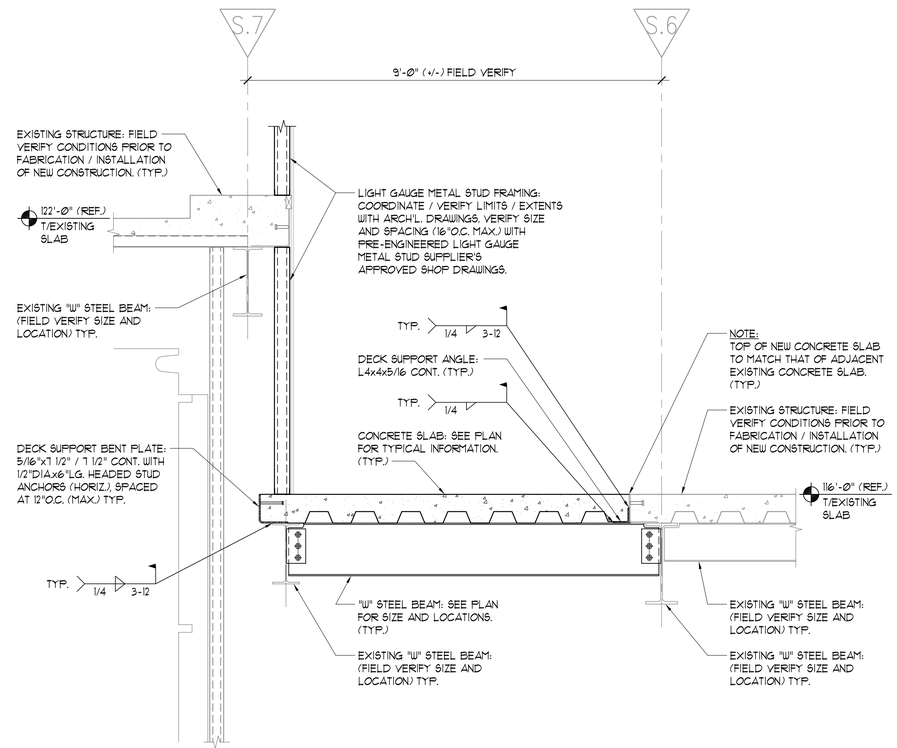
BEAM TO BEAM CONNECTIONS 3/4" DIA. A325-N BOLTS FOR "SIMPLE" BEAMS WITH SHEAR ONLY ASD DESIGN (FLEXIBLE)

BEAM SIZE	NUMBER OF BOLT SPACES	CONNECTION SHEAR VALUE KIPS PLATE = 3/8"	LENGTH OF PLATE	
W8, W10	(1) AT 3" = 0'-3"	15.9	0'-6"	
W12, W14	(2) AT 3" = 0'-6"	27.0	0'-9"	
W16	(3) AT 3" = 0'-9"	42.4	1'-0"	
W18	(4) AT 3" = 1'-0"	53.0	1'-3"	
W21, W24	(5) AT 3" = 1'-3"	63.6	1'-6"	



E8 / S542 SECTION

SCALE: 3/4" = 1'-0"



A6 / S542 SECTION

SCALE: 3/4" = 1'-0"

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Seal

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Florida No: 46613

BID DOCUMENTS
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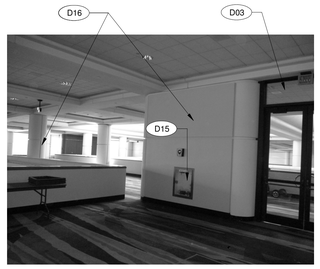
DATE	SUBMISSION/REVISION	NO.

SECTIONS AND DETAILS

SCALE:	As indicated
DRAWN BY:	S.L.
CHECK BY:	J.H.
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

S542



G1
AD201

DEMO - IMAGE 3

SCALE: 1" = 1'-0"

G7
AD201

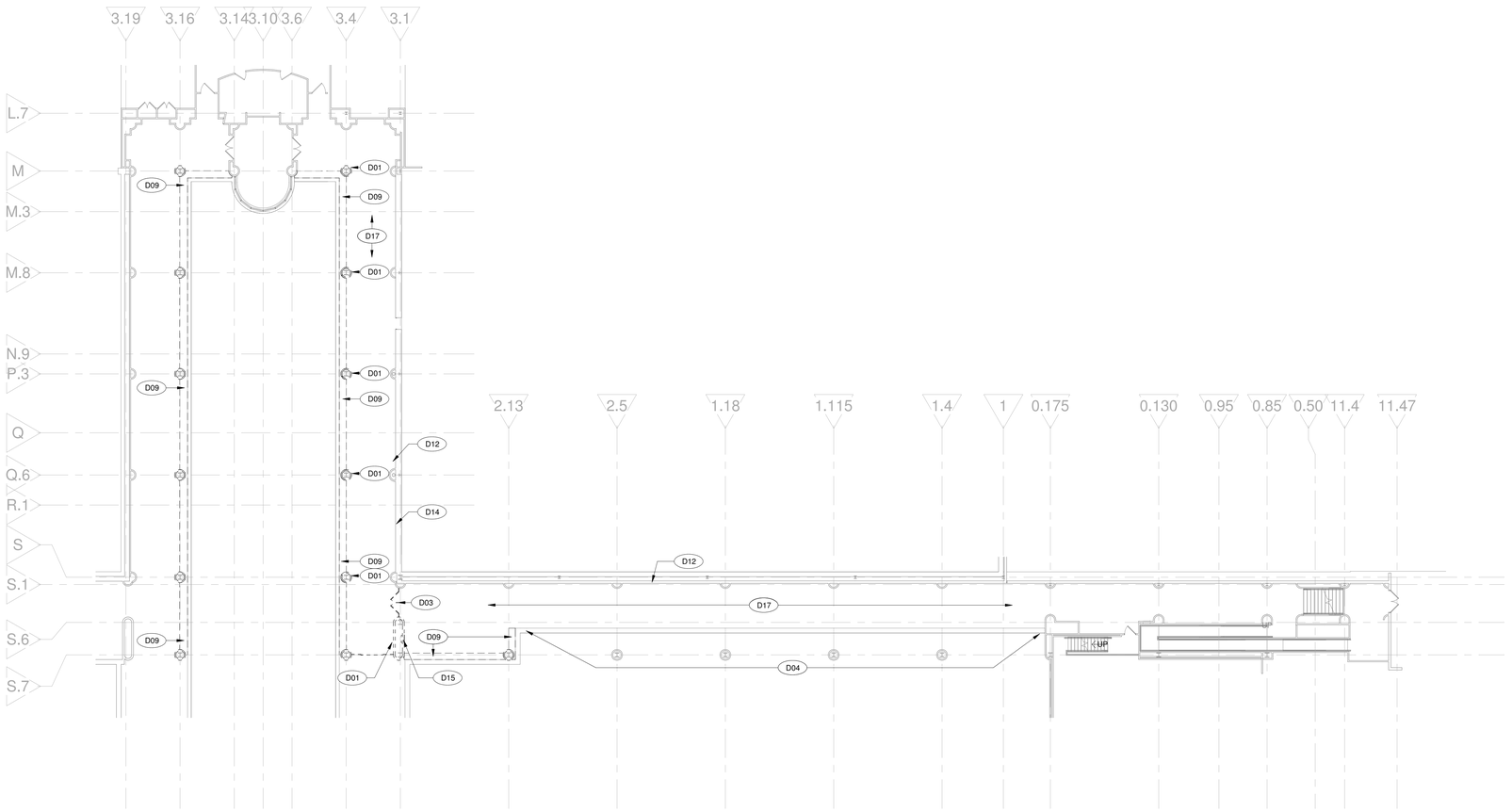
DEMO IMAGE 2

SCALE: 1" = 1'-0"

G5
AD201

DEMO IMAGE1

SCALE: 1" = 1'-0"



A2
AD201

DEMO FLOOR PLAN

SCALE: 1/16" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A THESE DRAWINGS HAVE BEEN DEVELOPED FROM OBSERVED FIELD CONDITIONS AND MAY NOT REFLECT ALL HIDDEN CONDITIONS. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND SHALL VERIFY THESE DRAWINGS WITH THE EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS.

B IT IS THE INTENT OF THIS FACILITY TO REMAIN OPERATIONAL FOR THE DURATION OF THIS PROJECT. ENSURE SAFETY OF ALL OCCUPANTS. DEMOLITION OF ITEMS WHICH MAY CREATE DUST, NOISE, OR CIRCULATION PROBLEMS SHOULD BE COORDINATED WITH OWNER PRIOR TO START OF WORK.

C CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE DURING DEMOLITION AND SHALL BEAR ALL COSTS OF REPAIRING, REFINISHING, REPLACING, ETC. OF EXISTING ITEMS DAMAGED TO THEIR ORIGINAL STATE.

D CONFORM TO ALL APPLICABLE CODES FOR DEMOLITION AND NEW WORK. FOR ADDITIONAL GENERAL NOTES, LEGENDS, AND SCHEDULES REFER TO SHEET G001

E CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS AND FL PRODUCT APPROVALS FOR REVIEW BY THE DESIGN TEAM PRIOR TO FABRICATION OF ALL ASSEMBLIES.

F COORDINATE ALL SHUT-DOWNS IN UTILITY SERVICE WITH OWNER PRIOR TO PERFORMING SHUT-DOWNS IN UTILITY SERVICE

G CONTRACTOR SHALL PATCH, INFILL, AND SEAL WALLS WHERE AIR DUCTS AND UTILITIES THAT PENETRATE WALLS WAS REMOVED. ALL INFILL AND SEALANTS SHALL CONFORM WITH THE EXISTING FIRE WALL AND SMOKE RATING REQUIREMENTS.

H CONTRACTOR SHALL COORDINATE WITH THE CLIENT'S PROJECT MANAGER CONCERNING THE PROPER REMOVAL OF ALL DEBRIS ASSOCIATED WITH THE WORK.

I MAINTAIN THE CONTINUITY OF CONSTRUCTION OF ALL FIRE-RATED ASSEMBLIES (I.E. DOORS, GYPSUM ENCLOSURES, SPRAYED FIRE PROOFING, ETC.) AT ALL EXISTING AND NEW LOCATIONS INCLUDING BUT NOT LIMITED TO STRUCTURAL COLUMNS, BEAMS, AND FLOOR SLABS.

J ALL CORE DRILL LOCATIONS TO BE VERIFIED BY GC PRIOR TO DRILLLING GC TO COORDINATE ALL FINAL CORE DRILL LOCATION WITH FURNITURE VENDOR.

K CONTRACTOR TO FIELD VERIFY EXISTING PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM OWNER/ARCHITECT IF DICREPANCIES BETWEEN EXISTING AND DRAWINGS.

L IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB AND IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIAL SHALL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

M COORDINATE NEW INTERIOR STOREFRONT LOCATIONS WITH EXISTING SPRINKLER HEADS. NEW STOREFRONT TO PROVIDE 6" MIN. CLEARANCE FROM ALL HEAD LOCATIONS. NOTIFY ARCHITECT OF ALL CONFLICTS BEFORE CONSTRUCTION.

DEMOLITION KEYNOTE LEGEND

D01	DEMO OF GFRG COLUMN COVER. REFER TO NEW WORK PLAN FOR EXTENTS OF DEMO WORK. GC. TO PROTECT AND PRESERVE ALL SYSTEMS & STRUCTURE UNDERNEATH DURING CONSTRUCTION.
D02	PARTIAL DEMO OF FLOOR FINISH IN THIS AREA FOR NEW WORK.
D03	REMOVE DOOR & RELOCATE TO NEW LOCATION. DEMO FRAME & OPENING BACK TO EXISTING COLUMN ENCLOSURE. SAVE DOOR & HARDWARE FOR RE-USE.
D04	PARTIAL DEMO OF EXISTING BALCONY & RAILING. REFER TO NEW WORK & DETAILS FOR EXTENT OF DEMO COORIDINATION.
D09	CARPET TO REMAIN. GC TO PROTECT AND PRESERVE. REMOVE FLOOR FINISH ONLY AS NEEDED FOR NEW WORK. PATCH AND REPAIR AS NEEDED. SEE FINISH FLOOR PLANS TO COORDINATE PREP WORK.
D12	DEMO OUTLETS, REF TO ELECTRICAL FOR NEW LOCATIONS, TYP.
D14	PATCH AND REPAIR WALL IF DAMAGED DURING CONSTRUCTION, TYP.
D15	EXISTING FDVC CABINET, GC TO TEMPORARILY DISCONNECT, PROTECT DURING CONSTRUCTION, AND RELOCATE AS NECESSARY FOR NEW WORK
D16	REMOVE GWB CEILING AND SOFFIT, GC TO PROTECT STRUCTURE ELEMENENTS WALL DURING CONSTRUCTION.
D17	PATCH AND REPAIR WALL AFTER REMOVING CONDUITS REFER ELECTRICAL DRAWINGS, TYP.

KEY PLAN

N

1 2 3

AREA

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Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

BID DOCUMENTS

NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

OVERALL DEMOLITION PLANS - STOREFRONT

SCALE:	As indicated
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

AD201

G3
AD201.2

DEMO IMAGE 4

SCALE: 1" = 1'-0"

G5
AD201.2

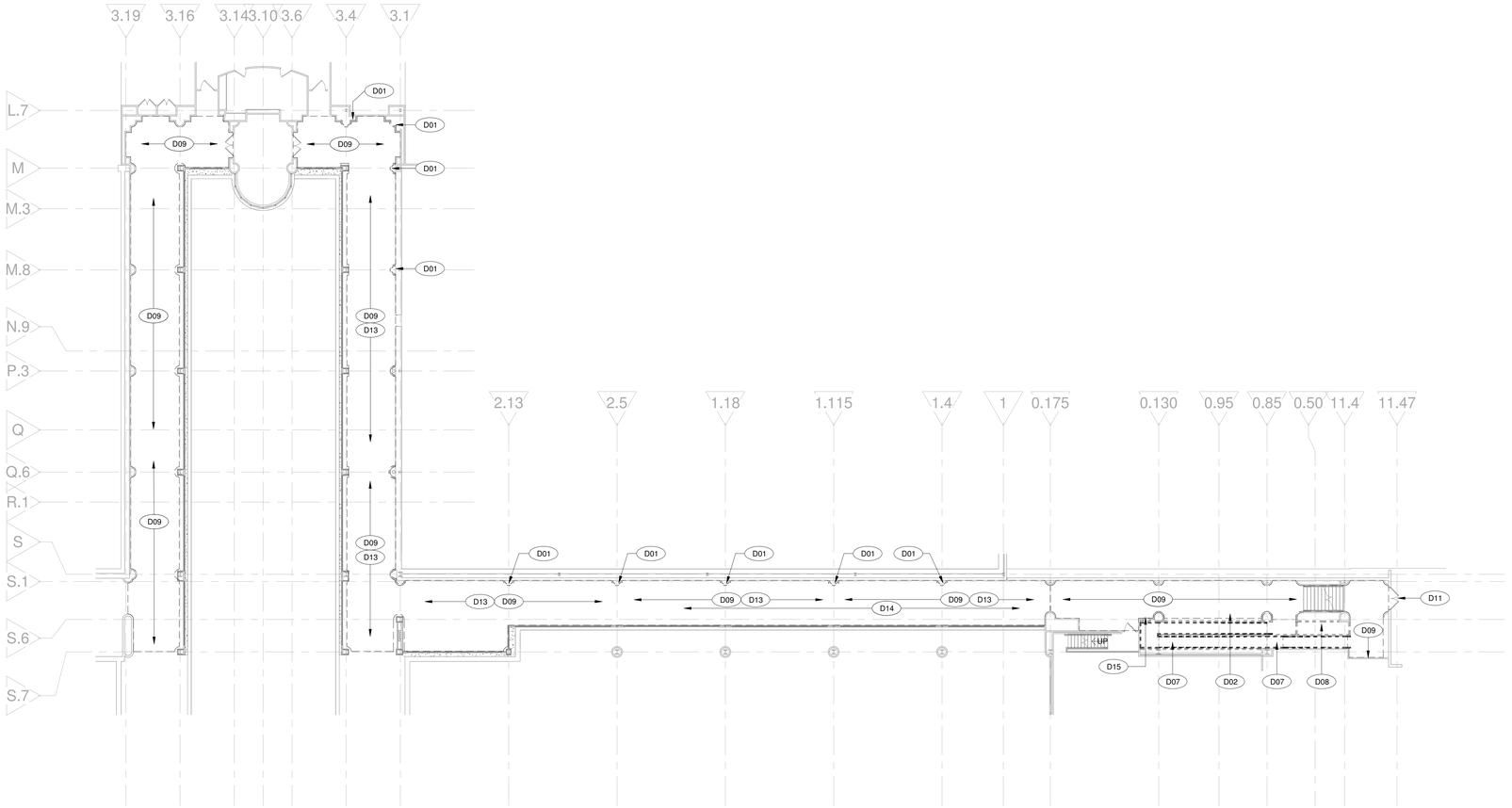
DEMO IMAGE 5

SCALE: 1" = 1'-0"

G7
AD201.2

DEMO IMAGE 6

SCALE: 1" = 1'-0"



A1
AD201.2

DEMO FLOOR PLAN

SCALE: 1/16" = 1'-0"

GENERAL NOTES - FLOOR PLAN

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K CONTRACTOR TO FIELD VERIFY EXISTING PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM OWNER/ARCHITECT IF DICREPANCIES BETWEEN EXISTING AND DRAWINGS.

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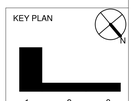
M COORDINATE NEW INTERIOR STOREFRONT LOCATIONS WITH EXISTING SPRINKLER HEADS. NEW STOREFRONT TO PROVIDE 6" MIN. CLEARANCE FROM ALL HEAD LOCATIONS. NOTIFY ARCHITECT OF ALL CONFLICTS BEFORE CONSTRUCTION.

DEMOLITION KEYNOTE LEGEND

D01	DEMO OF GFRG COLUMN COVER. REFER TO NEW WORK PLAN FOR EXTENTS OF DEMO WORK. GC. TO PROTECT AND PRESERVE ALL SYSTEMS & STRUCTURE UNDERNEATH DURING CONSTRUCTION.
D02	PARTIAL DEMO OF FLOOR FINISH IN THIS AREA FOR NEW WORK.
D07	DEMO RAMP, RAILING, AND RAMP WALL IN ITS ENTIRETY.
D08	DEMO WALL AND SHELF IN ITS ENTIRETY.
D09	CARPET TO REMAIN. GC TO PROTECT AND PRESERVE. REMOVE FLOOR FINISH ONLY AS NEEDED FOR NEW WORK. PATCH AND REPAIR AS NEEDED. SEE FINISH FLOOR PLANS TO COORDINATE PREP WORK.
D11	REMOVE DOOR HARDWARE. PREP FOR NEW EGRESS HARDWARE.
D13	REMOVE THE REMAINING GWB CEILING, TILES, GRID, AND LIGHTING FIXTURES FOR NEW WORK TO RECIEVE NEW CEILING AND LIGHTING FIXTURE, REF TO MECHANICAL DRAWINGS FOR LOCATIONS.
D14	PATCH AND REPAIR WALL IF DAMAGED DURING CONSTRUCTION, TYP.
D15	EXISTING FDVC CABINET. GC TO TEMPORARILY DISCONNECT, PROTECT DURING CONSTRUCTION, AND RELOCATE AS NECESSARY FOR NEW WORK

KEY PLAN



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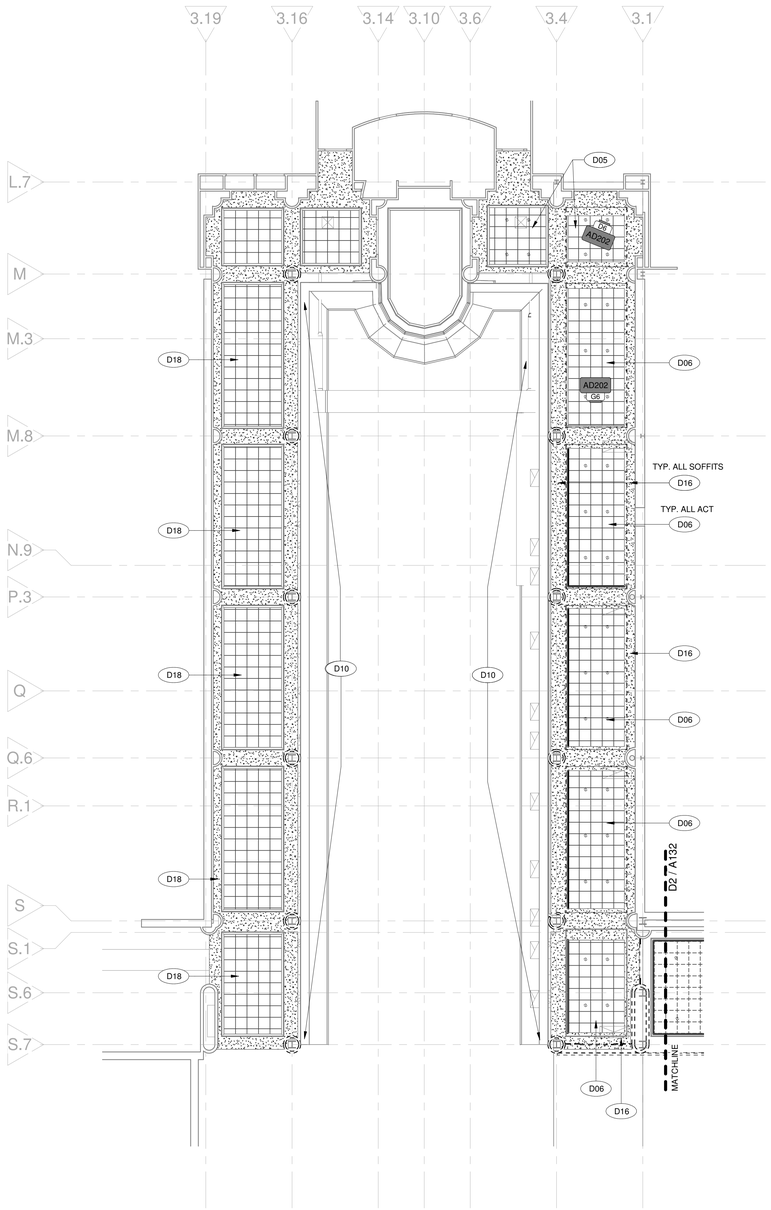
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

OVERALL DEMOLITION PLANS - OFFICES

SCALE:	As indicated
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

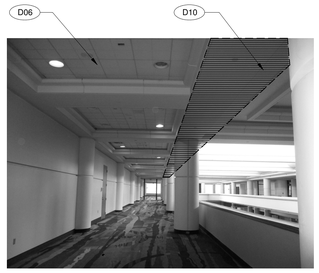
AD201.2



A1
AD202

AREA 1 - CEILING DEMOLITION PLAN

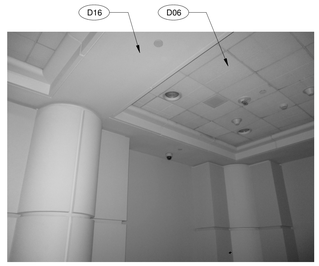
SCALE: 3/32" = 1'-0"



G6
AD202

DEMO - IMAGE 1

SCALE: 1" = 1'-0"



D6
AD202

DEMO - IMAGE 2

SCALE: 1" = 1'-0"

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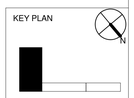
DEMOLITION KEYNOTE LEGEND

D05	DEMO CEILING TILES & GRID AS NECESSARY FOR NEW WORK ONLY. ALL ABOVE AND IN-CEILING MECHANICAL & ELECTRICAL TO REMAIN INTACT. GC TO PROTECT ALL SYSTEMS DURING CONSTRUCTION.
D06	DEMO CEILING TILES & CEILING GRID, REMOVE ALL FIXTURES REFER MECHANICAL & ELECTRICAL. GC TO PROTECT ALL SYSTEMS & STRUCTURE DURING CONSTRUCTION
D10	PARTIAL DEMO OF GWB CEILING AS NEEDED FOR THE NEW STOREFRONT WALL
D16	REMOVE GWB CEILING AND SOFFIT, GC TO PROTECT STRUCTURE ELEMENENTS WALL DURING CONSTRUCTION.
D18	CEILING TILES AND GRID TO REMAIN, GC TO PROTECT CEILING AND FIXTURE DURING CONSTRUCTION.

KEY PLAN



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BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

REFLECTED CEILING DEMOLITION PLAN

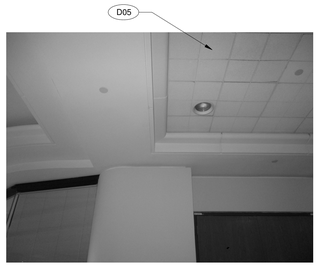
SCALE:	As indicated
DRAWN BY:	MO
CHECK BY:	MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

AD202

G1
AD202.2

DEMO - IMAGE 6

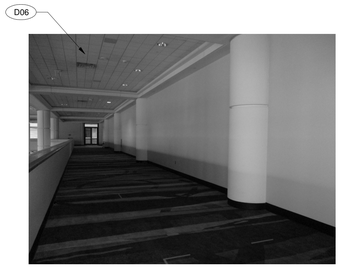
SCALE: 1" = 1'-0"



E1
AD202.2

DEMO - IMAGE 5

SCALE: 1" = 1'-0"



E4
AD202.2

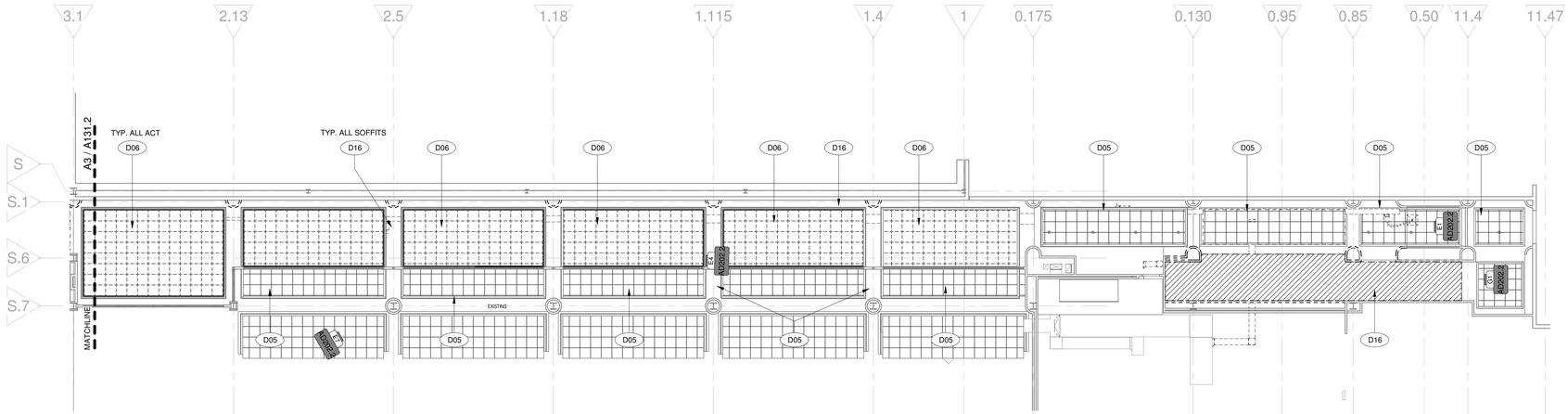
DEMO IMAGE - 4

SCALE: 1" = 1'-0"

E7
AD202.2

DEMO IMAGE 3

SCALE: 1" = 1'-0"



A2
AD202.2

AREA 2 & AREA 3 - CEILING DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES - FLOOR PLAN

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DEMOLITION KEYNOTE LEGEND

D05	DEMO CEILING TILES & GRID AS NECESSARY FOR NEW WORK ONLY. ALL ABOVE AND IN-CEILING MECHANICAL & ELECTRICAL TO REMAIN INTACT. GC TO PROTECT ALL SYSTEMS DURING CONSTRUCTION.
D06	DEMO CEILING TILES & CEILING GRID, REMOVE ALL FIXTURES REFER MECHANICAL & ELECTRICAL. GC TO PROTECT ALL SYSTEMS & STRUCTURE DURING CONSTRUCTION
D10	PARTIAL DEMO OF GWB CEILING AS NEEDED FOR THE NEW STOREFRONT WALL.
D16	REMOVE GWB CEILING AND SOFFIT, GC TO PROTECT STRUCTURE ELEMENENTS WALL DURING CONSTRUCTION.

KEY PLAN

N

2 3

AREA

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Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

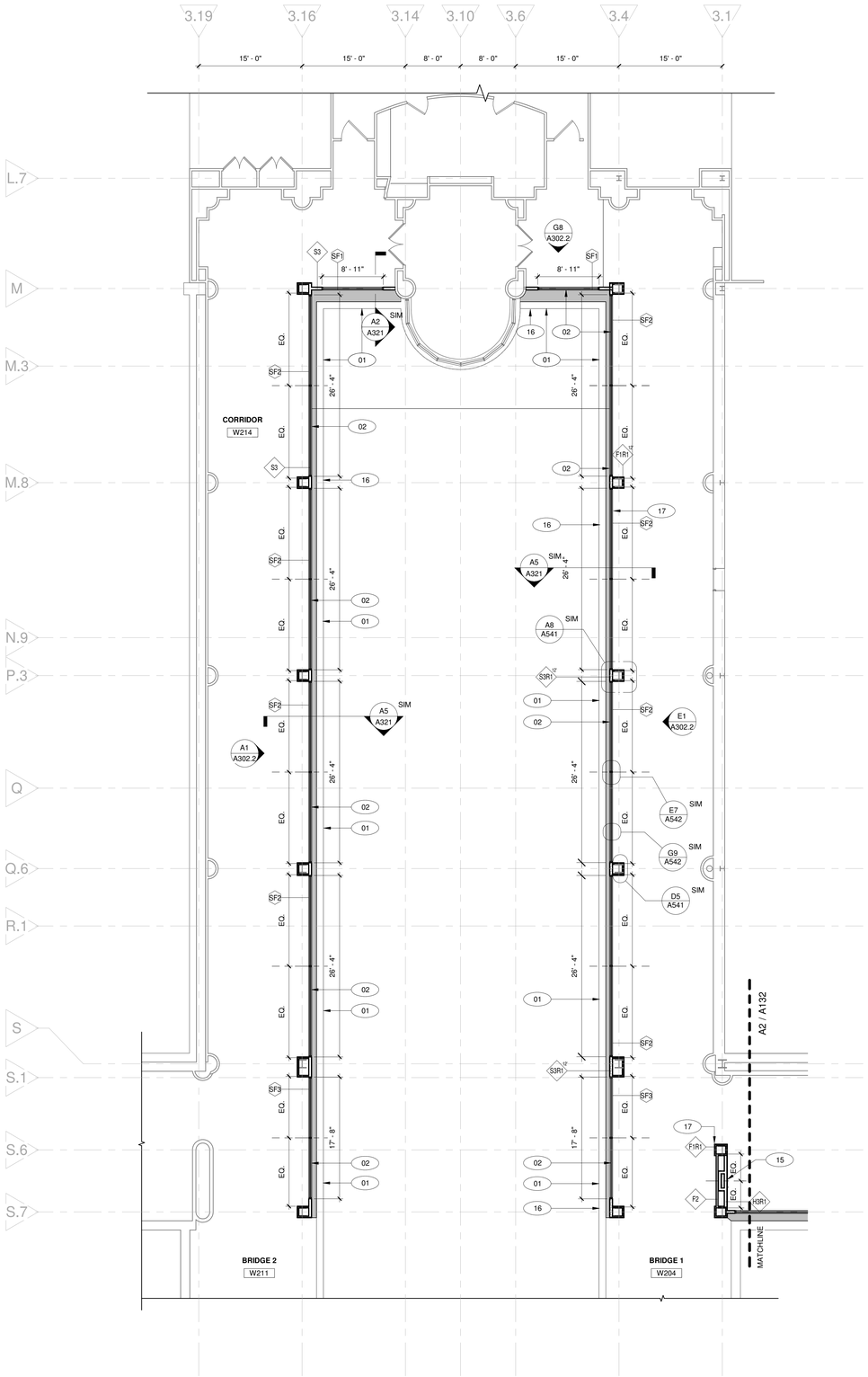
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

REFLECTED CEILING DEMOLITION PLAN

SCALE:	As indicated
DRAWN BY:	MO
CHECK BY:	MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

AD202.2



A3
A131

FLOOR PLAN - AREA 1

SCALE: 1/8" = 1'-0"

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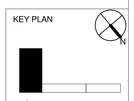
KEYNOTE LEGEND

01	NEW KNEEWALL W/ MTL. STUD FRAMING & GWB FASTENED TO EXISTING FLOOR SLAB AND BALCONY.
02	NEW ALUM. INTERIOR STOREFRONT SYSTEM RETROFITTED W/ EXISTING GLAZING. COORIDINATE QTY. & SIZE W/ OWNER, GC, TO FIELD VERIFY ALL EXISTING STUD SIZES & BEAM LOCATIONS PRIOR TO CONSTRUCTION.
15	EXISTING FIRE DEPT. VALVE CABINET IN NEW LOCATION. COORDINATE PLUMBING.
16	EXISTING BALCONY RAILING & WOOD CAP, GC TO PROTECT DURING CONSTRUCTION. ANCHOR KNEEWALL TO EXISTING AS REQUIRED, PATCH AND REPAIR IF DAMAGED.
17	ALL NEW WALL HEIGHT TO BE FIELD VERIFY AND COORDINATED WITH STRUCTURE.

KEY PLAN



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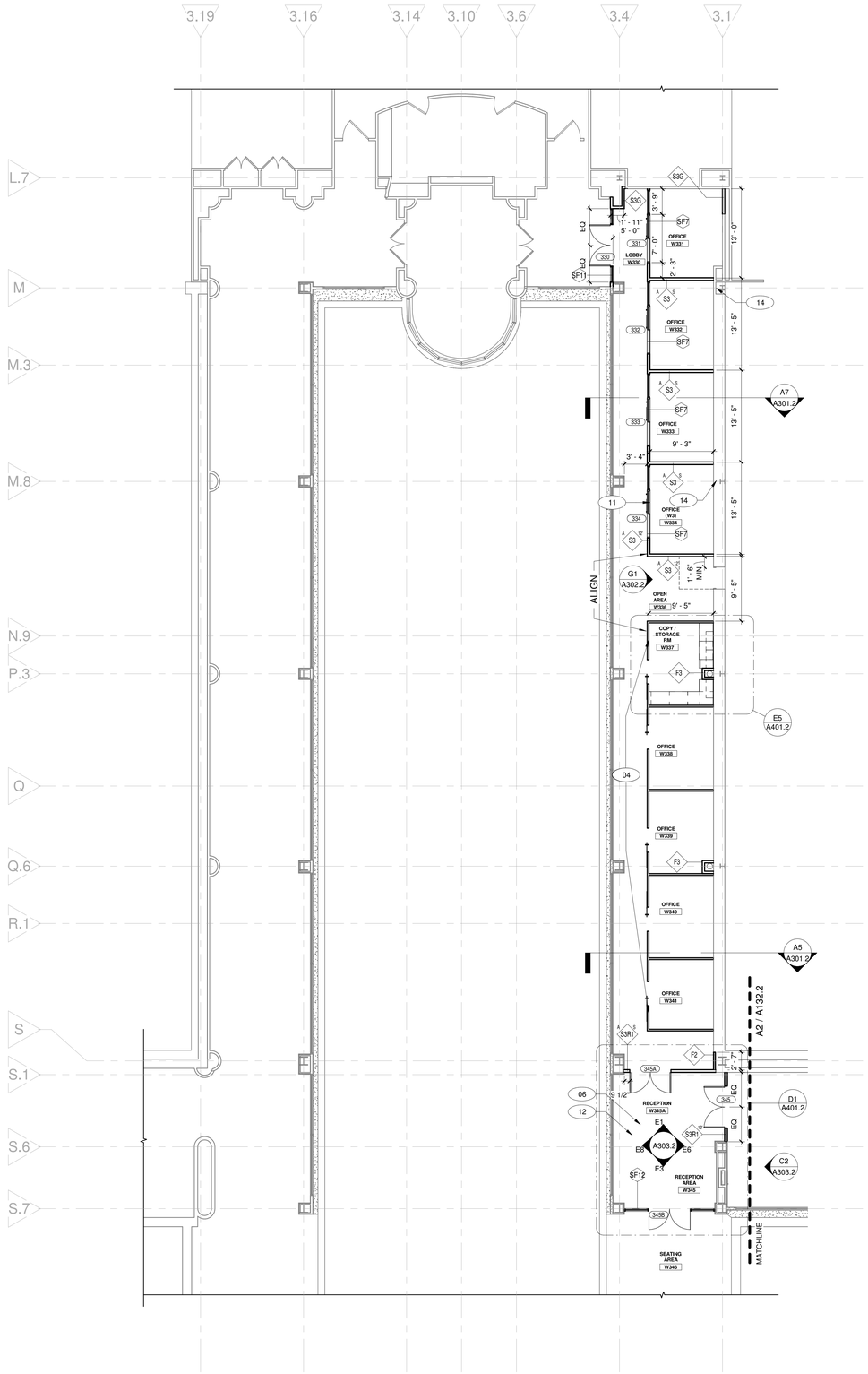
FLOOR PLAN AREA 1- STOREFRONT

SCALE:	1/8" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A131



A3
A131.2

FLOOR PLAN - AREA 1

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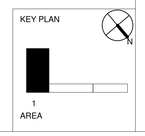
KEY PLAN



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KEYNOTE LEGEND

04	MODULAR OFFICE. BASIS OF DESIGN: TRENDWAY-VOLO SERIES. COORDINATE WITH INTERIORS AND SPECIFICATIONS.
06	NEW RECEPTION DESK. COORDINATE POWER & DATA REQUIREMENTS.
11	NEW ALUM. INTERIOR STOREFRONT AND NEW GLAZING.
12	COORDINATE REMOTE ELEVATOR ACCESS CONTROLS AT RECEPTION DESK.
14	PATCH AND REPAIR WALL W/ INFILL AS NEEDED WHERE HALF COLUMN IS REMOVED. SAND, FINISH AND PREP FOR NEW WALL FINISHES. COORDINATE WITH INTERIOR ELEVATIONS.

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FL Reg. No. AR0015108

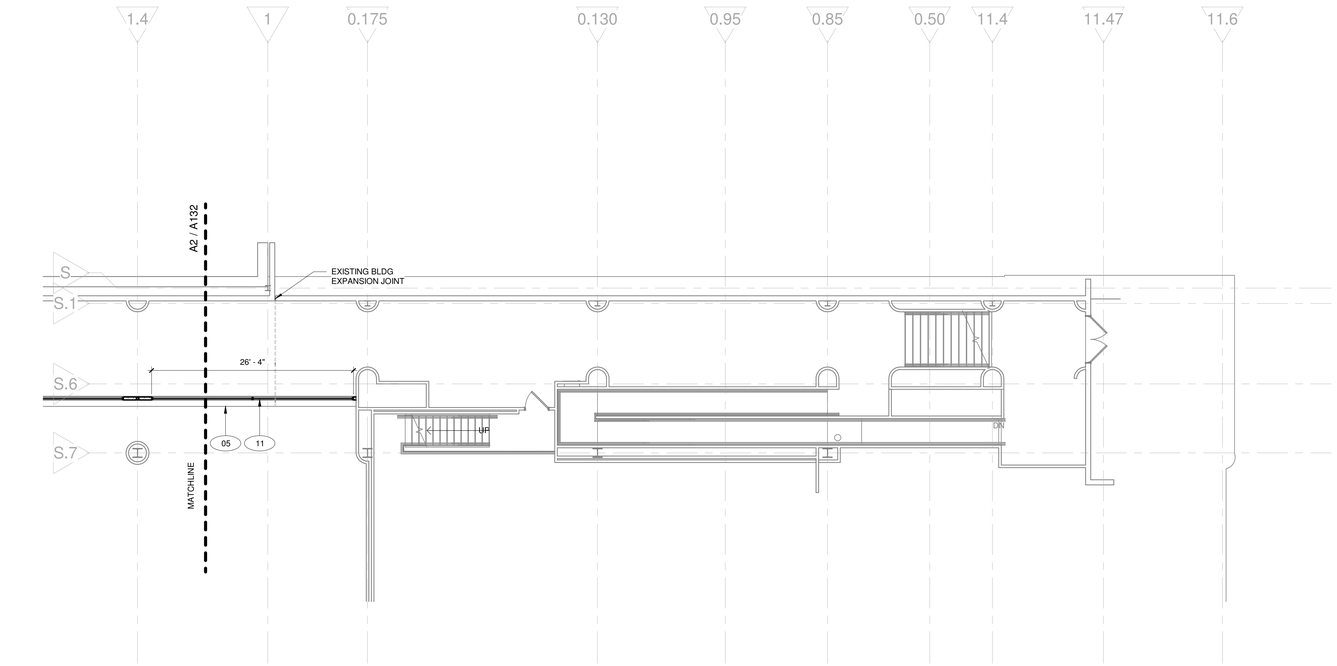
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

FLOOR PLAN AREA 1 - OFFICES

SCALE:	1/8" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

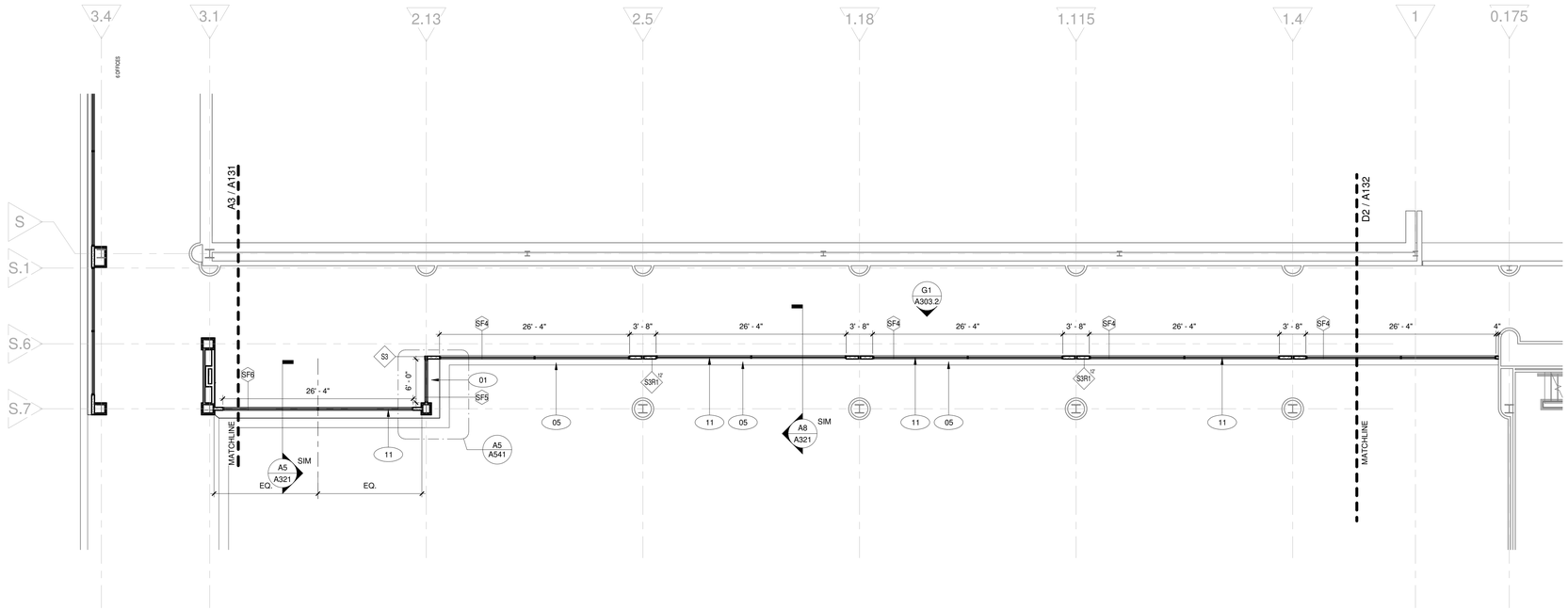
A131.2



D2
A132

FLOOR PLAN AREA 3

SCALE: 1/8" = 1'-0"

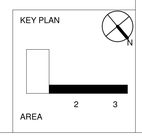


A2
A132

FLOOR PLAN AREA 2

SCALE: 1/8" = 1'-0"

KEY PLAN



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KEYNOTE LEGEND

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05	MODIFY EXISTING BALCONY RAILING & WOOD CAP AS NEEDED TO ACCEPT NEW STOREFRONT FRAMING. ANCHOR STOREFRONT TO EXISTING AS REQUIRED BY MFR.
11	NEW ALUM. INTERIOR STOREFRONT AND NEW GLAZING.

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BID DOCUMENTS
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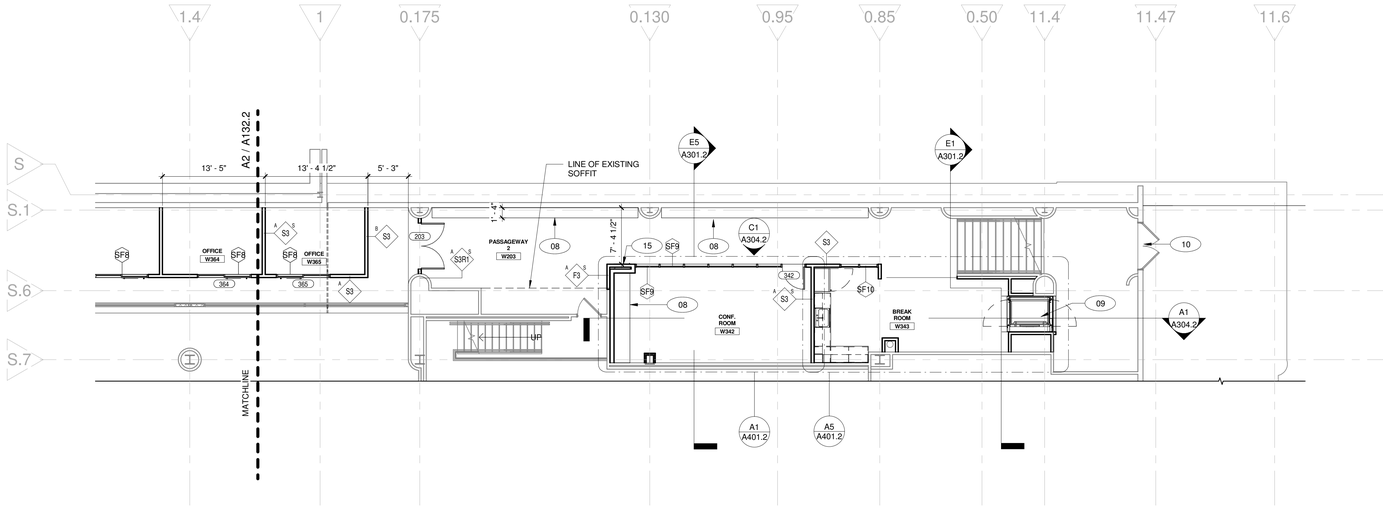
FLOOR PLAN AREA 2 / AREA 3 - STOREFRONT

SCALE:	1/8" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

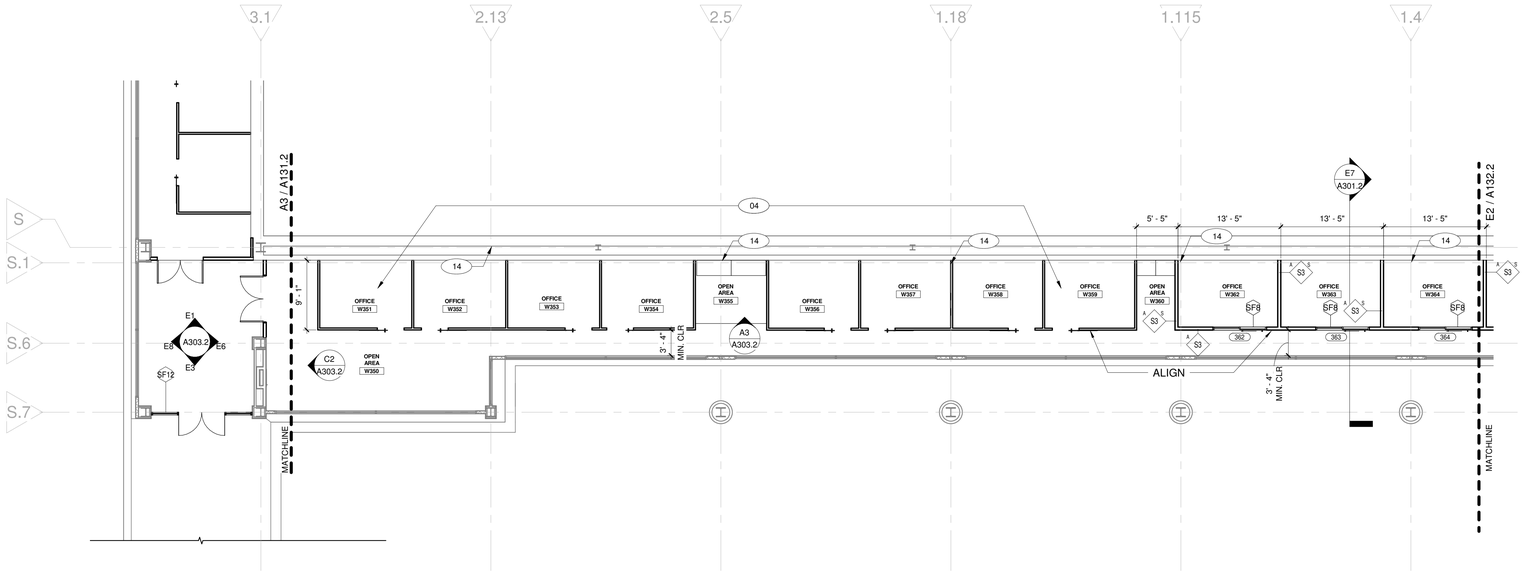
A132



E2 / A132.2

FLOOR PLAN AREA 3

SCALE: 1/8" = 1'-0"



A2 / A132.2

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KEYNOTE LEGEND

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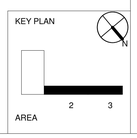
08	NEW MILLWORK COORDINATE W/ INTERIORS.
09	NEW AUTOMATED 36" X 60" VERTICAL PLATFORM LIFT. BASIS OF DESIGN, MFR: SAVARIA V1504 W/ ENCLOSURE AND AUTOMATIC DOOR. COORDINATE POWER W/ ELEC. DRAWINGS.
10	ADD NEW EGRESS HARDWARE TO EXISTING DOOR. GC. TO COORDINATE COMPATIBILITY.
14	PATCH AND REPAIR WALL W/ INFILL AS NEEDED WHERE HALF COLUMN IS REMOVED. SAND, FINISH AND PREP FOR NEW WALL FINISHES. COORDINATE WITH INTERIOR ELEVATIONS.
15	EXISTING FIRE DEPT. VALVE CABINET IN NEW LOCATION. COORDINATE PLUMBING.

KEY PLAN



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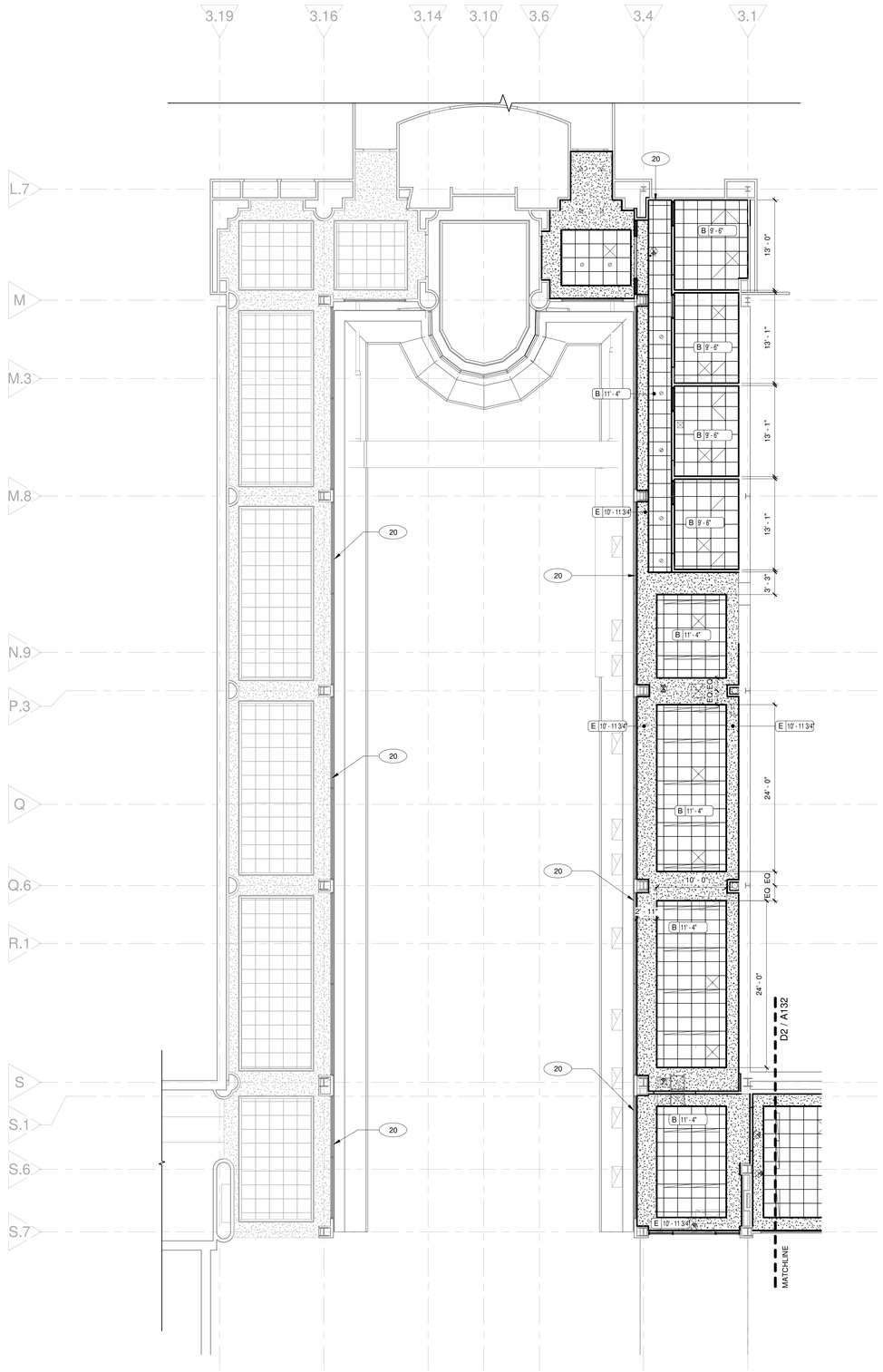
PROJECT NUMBER:	15012-0037

A132.2



A3
A231.2

CEILING PLAN - AREA 1

SCALE: 1/8" = 1'-0"

GENERAL NOTES - CEILING PLAN

A CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS AND DUCTWORK TO REMAIN DURING EXTENT OF CONSTRUCTION. COORDINATE WITH ENGINEER DRAWINGS & SPECIFICATION MANUAL.

B EXISTING CEILING TO REMAIN. GC TO REPLACE TILES OF CEILING THAT IS DAMAGED DURING CONSTRUCTION. MATCH EXISTING TILE.

C SPRINKLERS, EXIT SIGNS, AND SPEAKERS SHALL BE LOCATED IN ALIGNMENT W/ LIGHT FIXTURES AND OTHER CEILING ELEMENTS. WHERE THERE ARE NO LIGHT FIXTURES, AND/OR SPRINKLERS SHALL BE CENTERED IN CEILING TILE. SPRINKLERS SHALL BE FULLY CONCEALED WITH WHITE CAPS. CONTRACTOR TO COORDINATE.

D G.C. TO COORDINATE THE ALIGNMENT OF THE CEILING GRID AND PARTITIONS.

E ACCESS PANELS SHALL BE IDENTIFIED TO ARCHITECT PRIOR TO THE INSTALLATION IF REQUIRED.

F CEILING HEIGHTS TO BE COORDINATED WITH MECHANICAL UNITS, FIRE SPRINKLERS, STRUCTURAL BEAMS, AND LIGHT FIXTURES AGAINST EXISTING CONDITIONS. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.

G HATCHED AREAS INDICATE AREA/ITEMS NOT IN SCOPE OF WORK. COORDINATE WITH ENGINEERING DRAWINGS FOR FULL EXTENT OF SCOPE.

H GC TO COORDINATE SECURITY ITEMS WITH TENANT.

KEYNOTE LEGEND

20	PATCH & REPAIR GWB SOFFIT TO MATCH EXISTING ALONG NEW STOREFRONT AREAS AS NEEDED. PAINT TO MATCH, TYP.

CEILING TYPES

A	EXISTING SUSPENDED ACOUSTICAL CEILING
B	NEW 24"x24" SUSPENDED ACOUSTICAL CEILING
D	NEW RATED SHAFT-WALL CEILING - UL 415
E	NEW GWB SOFFIT

REFLECTED CEILING LEGEND

- 2'x2' RECESSED DIRECT / INDIRECT LED TROFFER
- 4' RECESSED LINEAR LED DIRECT WALL WASH FIXTURE
- DOWNLIGHT CEILING FIXTURE
- CEILING MOUNTED EXIT SIGN LIGHT
- HVAC DIFFUSER
- HVAC RETURN AIR
- ACT CEILING GRID
- GYP. BD CEILING
- EXIT SIGN
- EXIT SIGN WITH DIRECTIONAL ARROW

KEY PLAN

1
AREA

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FL Reg. No. AR0015108

BID DOCUMENTS
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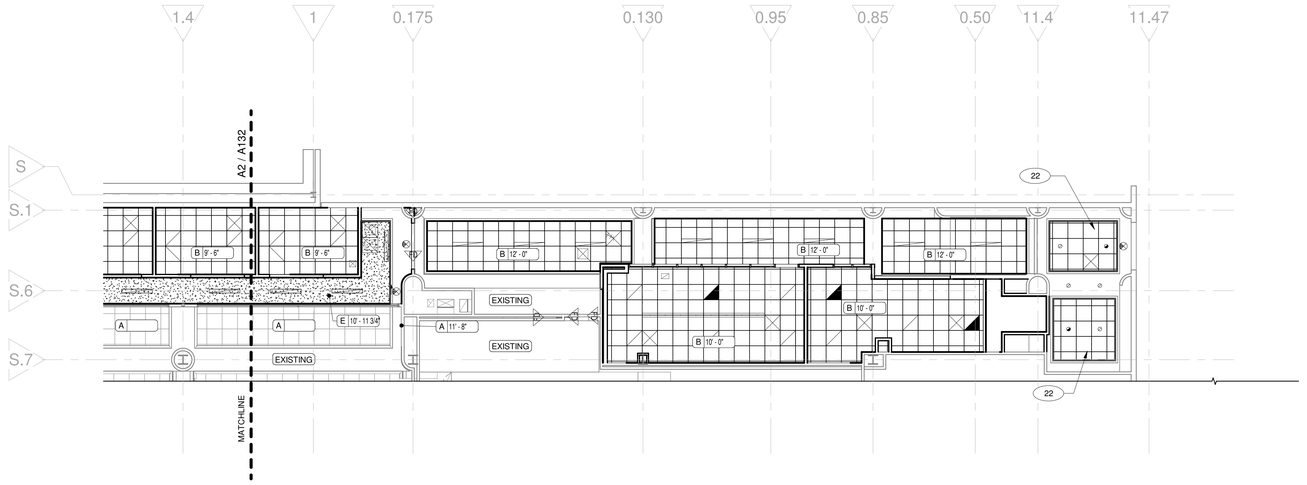
DATE	SUBMISSION/REVISION	NO.

REFLECTED CEILING PLAN AREA 1

SCALE:	1/8" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

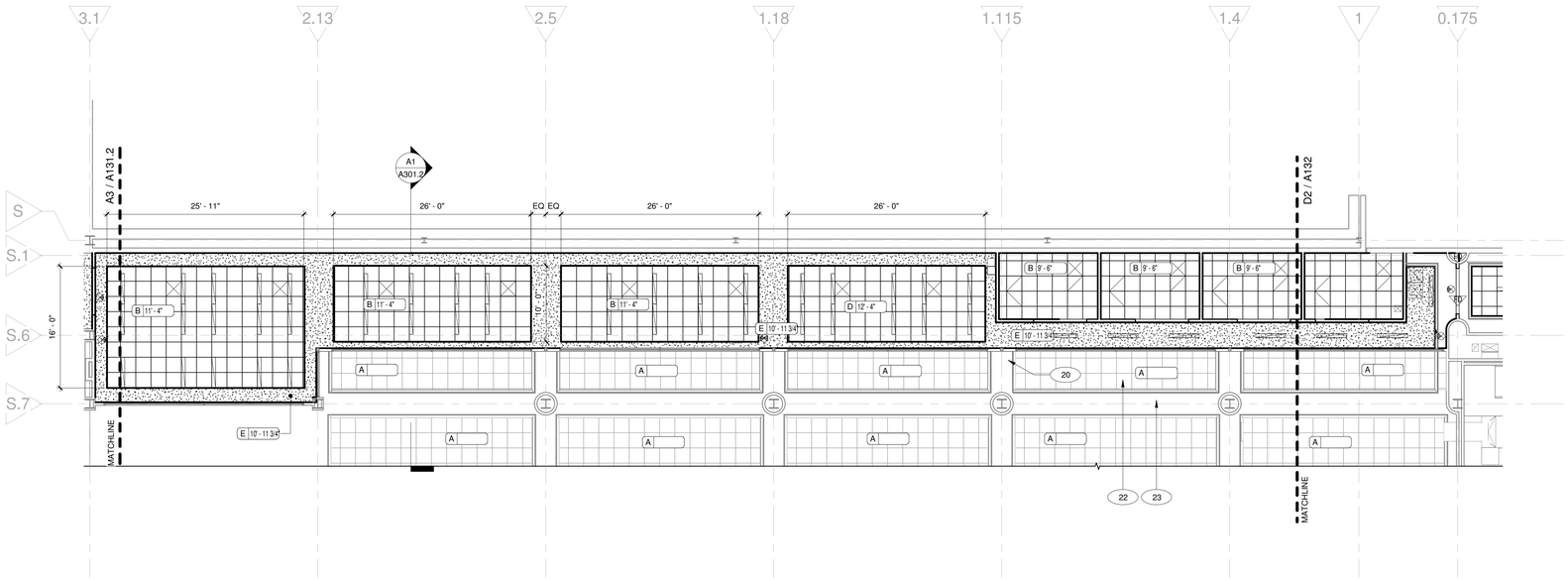
A231.2



E3
A232.2

CEILING PLAN - AREA 3

SCALE: 1/8" = 1'-0"

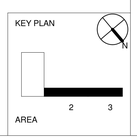


A3
A232.2

CEILING PLAN - AREA 2

SCALE: 1/8" = 1'-0"

KEY PLAN



AREA

GENERAL NOTES - CEILING PLAN

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E ACCESS PANELS SHALL BE IDENTIFIED TO ARCHITECT PRIOR TO THE INSTALLATION IF REQUIRED.

F CEILING HEIGHTS TO BE COORDINATED WITH MECHANICAL UNITS, FIRE SPRINKLERS, STRUCTURAL BEAMS, AND LIGHT FIXTURES AGAINST EXISTING CONDITIONS. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.

G HATCHED AREAS INDICATE AREA/ITEMS NOT IN SCOPE OF WORK. COORDINATE WITH ENGINEERING DRAWINGS FOR FULL EXTENT OF SCOPE.

H GC TO COORDINATE SECURITY ITEMS WITH TENANT.

KEYNOTE LEGEND

20	PATCH & REPAIR GWB SOFFIT TO MATCH EXISTING ALONG NEW STOREFRONT AREAS AS NEEDED. PAINT TO MATCH, TYP.
22	REPLACE WITH NEW CEILING TILE AND GRID AS NEEDED. INSTALL AT EXISTING CEILING HEIGHT. SEE SPECS FOR DETAILS.
23	EXISTING SOFFIT, GC TO PROTECT DURING CONSTRUCTION.

CEILING TYPES

A	EXISTING SUSPENDED ACOUSTICAL CEILING
B	NEW 24"x24" SUSPENDED ACOUSTICAL CEILING
D	NEW RATED SHAFT-WALL CEILING - UL 415
E	NEW GWB SOFFIT

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- CEILING MOUNTED EXIT SIGN LIGHT
- HVAC DIFFUSER
- HVAC RETURN AIR
- ACT CEILING GRID
- GYP. BD CEILING
- EXIT SIGN
- EXIT SIGN WITH DIRECTIONAL ARROW

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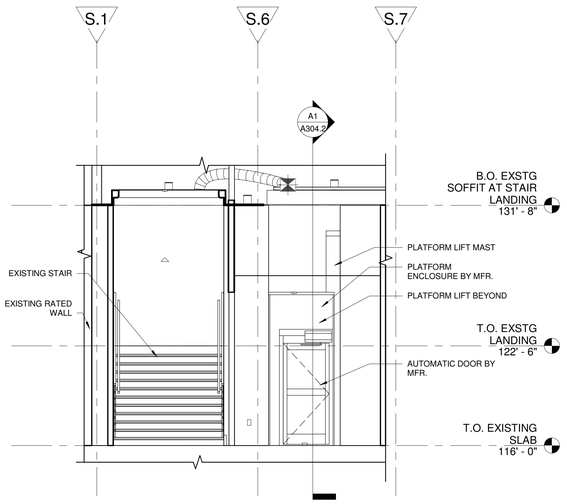
DATE	SUBMISSION/REVISION	NO.

REFLECTED CEILING PLAN AREA 2 / AREA 3

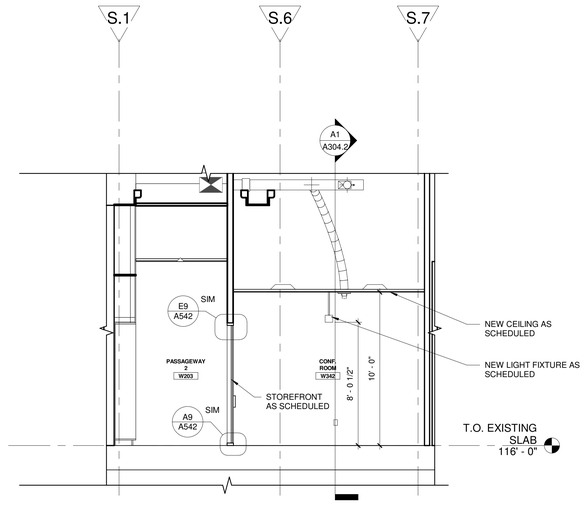
SCALE:	1/8" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A232.2



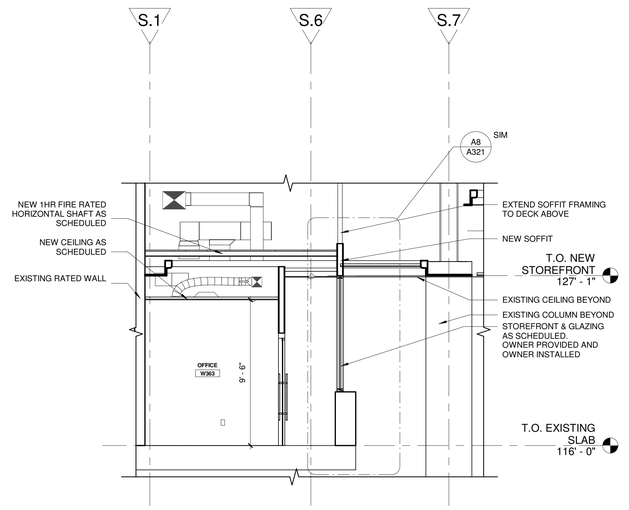
E1 A301.2 — SECTION AT BREAK RM - SUITE B

SCALE: 1/4" = 1'-0"



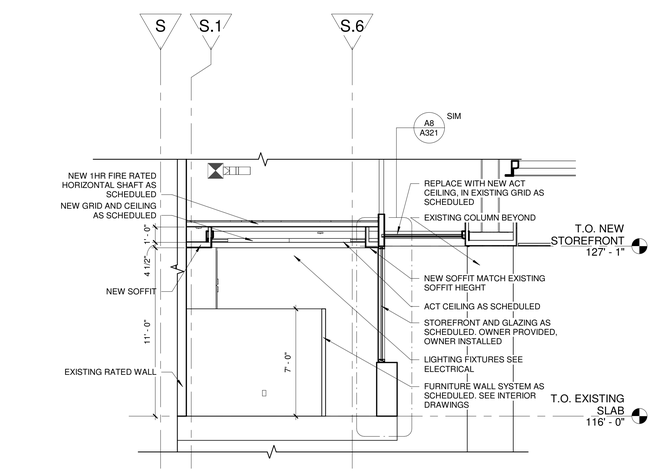
E5 A301.2 — SECTION AT CONFERENCE - SUITE B

SCALE: 1/4" = 1'-0"



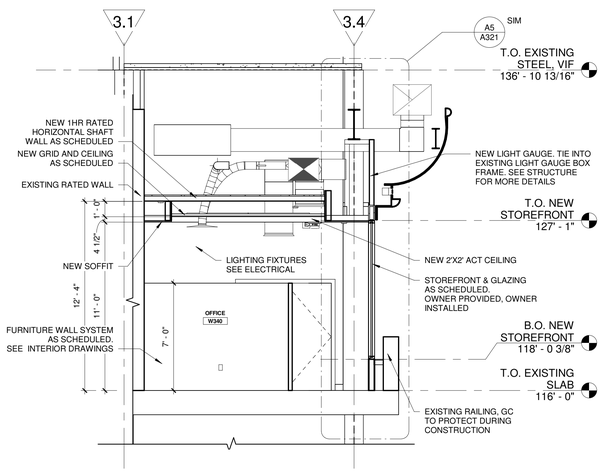
E7 A301.2 — SECTION AT OFFICE SUITE B

SCALE: 1/4" = 1'-0"



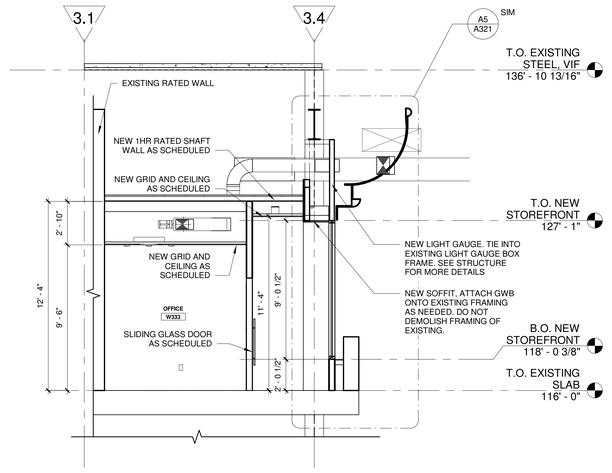
A1 A301.2 — SECTION AT CUBICLES - SUITE B

SCALE: 1/4" = 1'-0"



A5 A301.2 — SECTION AT CUBICLES - SUITE A

SCALE: 1/4" = 1'-0"



A7 A301.2 — SECTION AT OFFICE SUITE A

SCALE: 1/4" = 1'-0"

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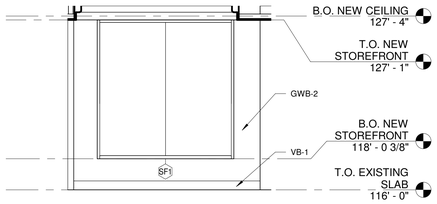
SECTIONS

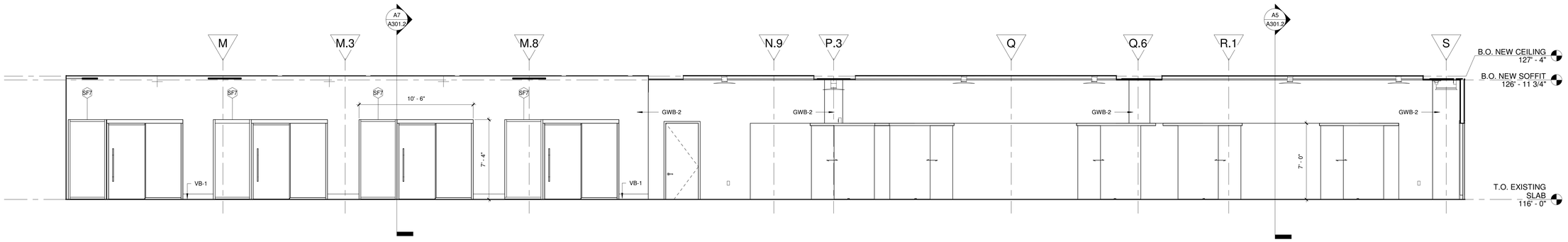
SCALE:	1/4" = 1'-0"
DRAWN BY:	KC
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A301.2



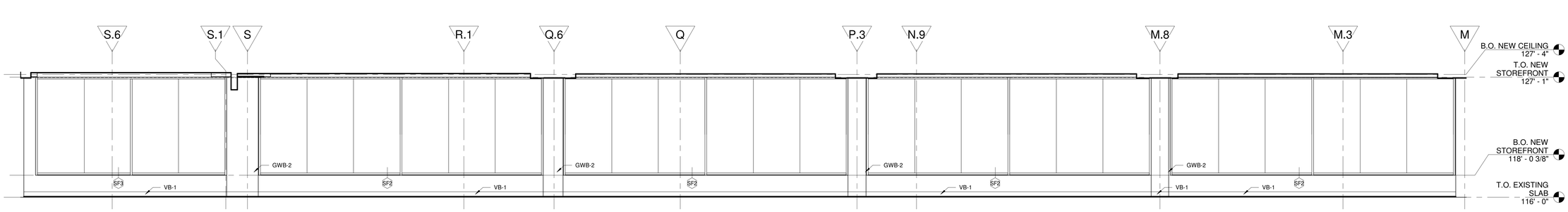
G8 A302.2 — ELEVATION AT STOREFRONT

SCALE: 1/4" = 1'-0"



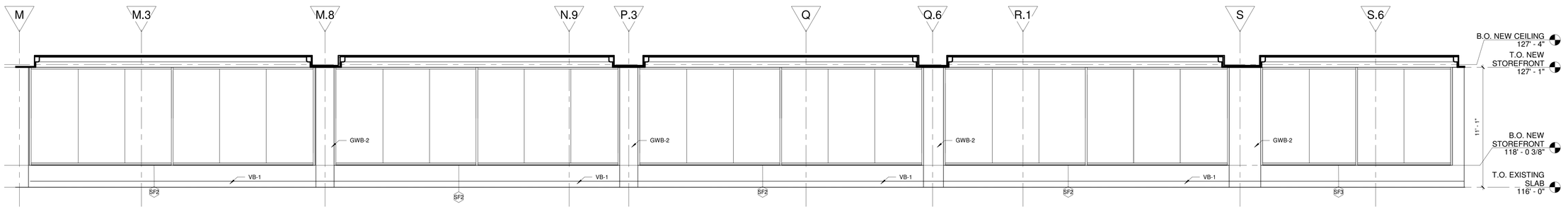
G1 A302.2 — ELEVATION AT OFFICES - SUITE A

SCALE: 1/4" = 1'-0"



E1 A302.2 — ELEVATION AT STOREFRONT - SUITE A

SCALE: 1/4" = 1'-0"



A1 A302.2 — ELEVATION AT STOREFRONT - CORRIDOR W214

SCALE: 1/4" = 1'-0"

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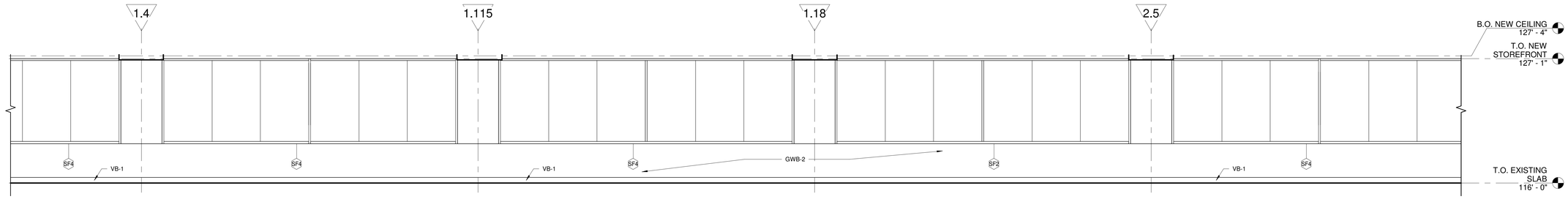
DATE	SUBMISSION/REVISION	NO.

INTERIOR ELEVATIONS

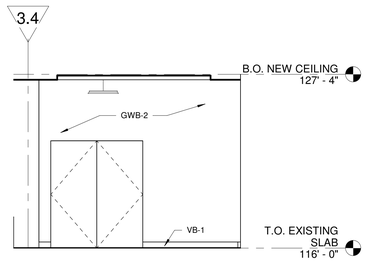
SCALE:	1/4" = 1'-0"
DRAWN BY:	AT
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A302.2



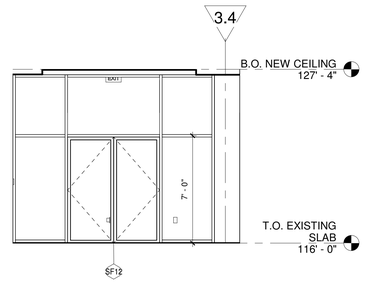
G1 A303.2 ELEVATION AT STOREFRONT - SUITE B

SCALE: 1/4" = 1'-0"



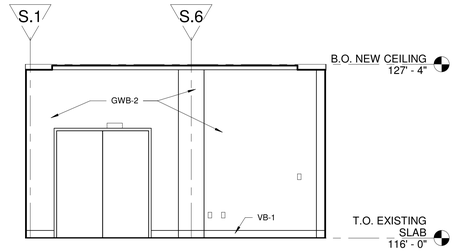
E1 A303.2 ELEVATION AT RECEPTION AREA -NORTH

SCALE: 1/4" = 1'-0"



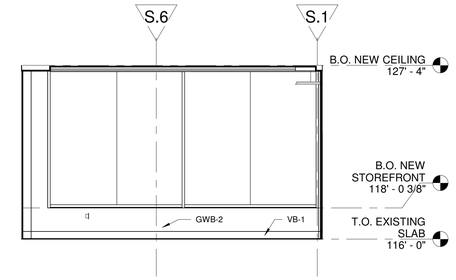
E3 A303.2 ELEVATION AT RECEPTION AREA - SOUTH

SCALE: 1/4" = 1'-0"



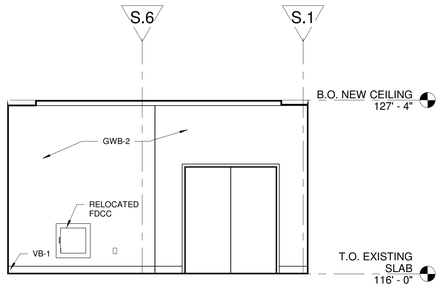
E6 A303.2 ELEVATION AT RECEPTION AREA - EAST

SCALE: 1/4" = 1'-0"



E8 A303.2 ELEVATION AT RECEPTION AREA - WEST

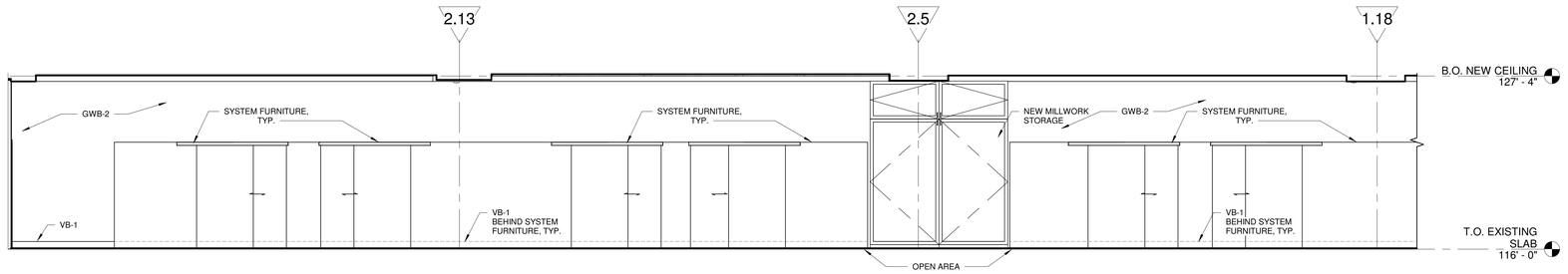
SCALE: 1/4" = 1'-0"



ELEVATION AT OPEN AREA - SUITE B AREA 2

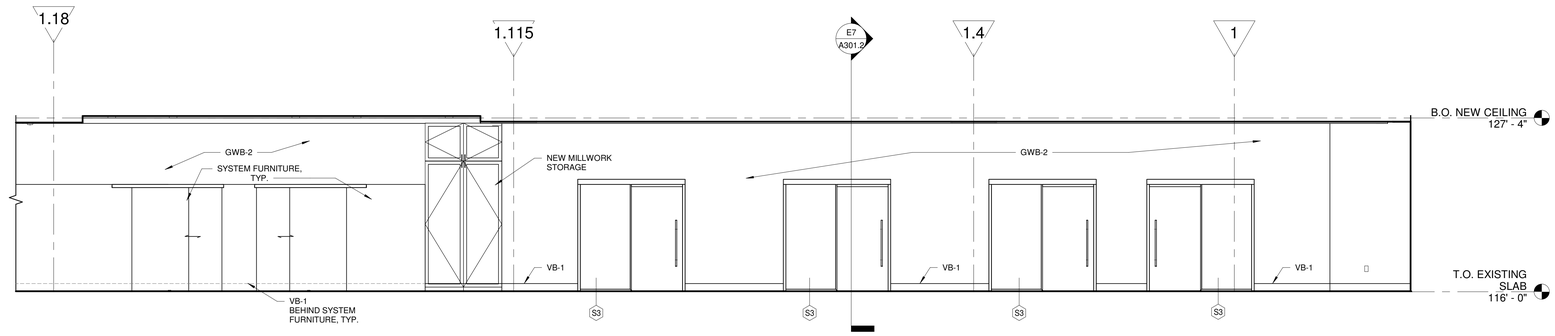
C2 A303.2

SCALE: 1/4" = 1'-0"



C3 A303.2 ELEVATION AT OFFICES - SUITE B AREA 2

SCALE: 1/4" = 1'-0"



A3 A303.2 ELEVATION AT OFFICES - SUITE B AREA 3

SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS

SCALE:	1/4" = 1'-0"
DRAWN BY:	KC
CHECK BY:	KC/MB
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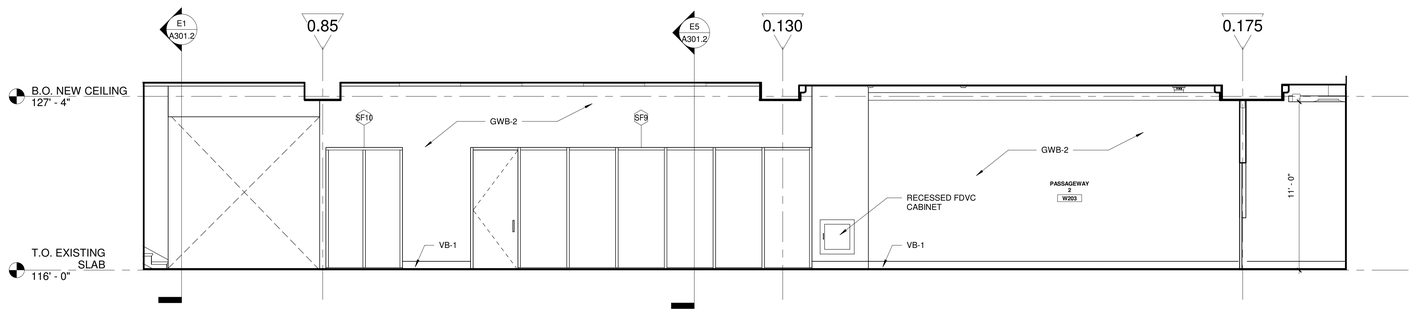
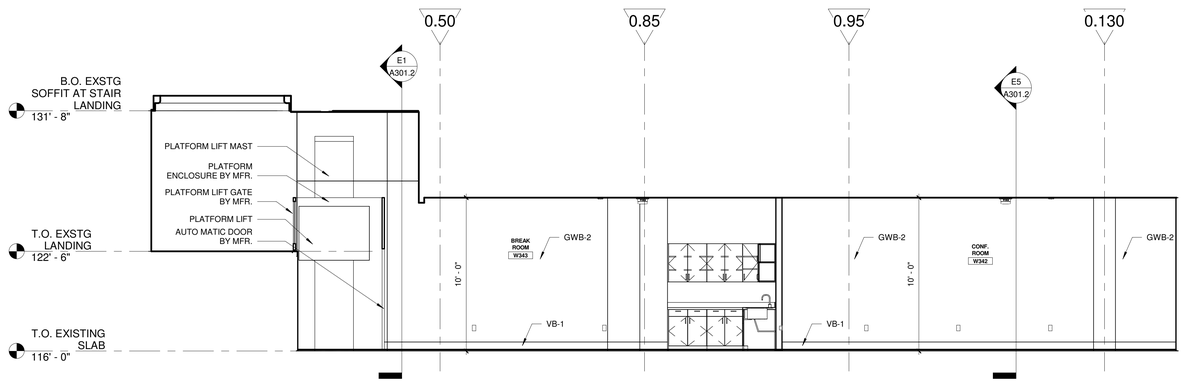
PROJECT NUMBER:	15012-0037

A303.2



C1 A304.2 ELEVATION AT CONFERENCE ROOM

SCALE: 1/4" = 1'-0"



A1 A304.2 ELEVATION AT BREAKROOM

SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS

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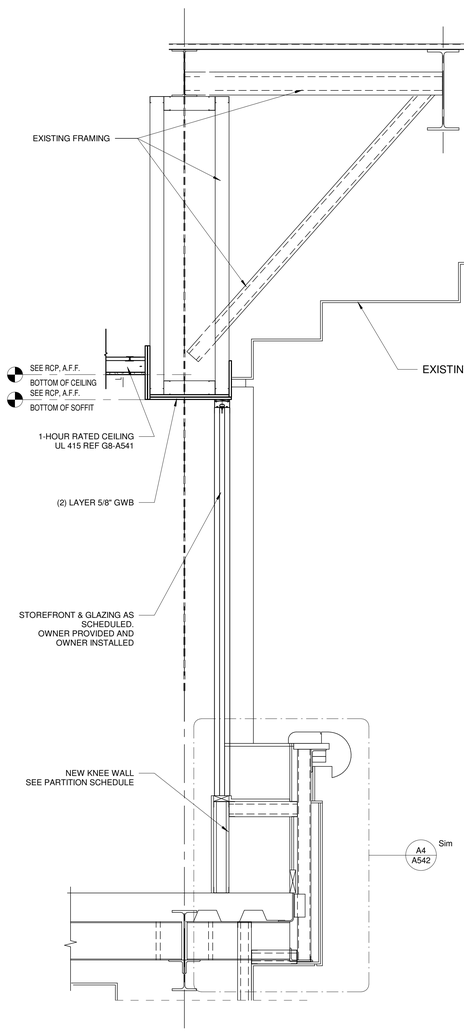
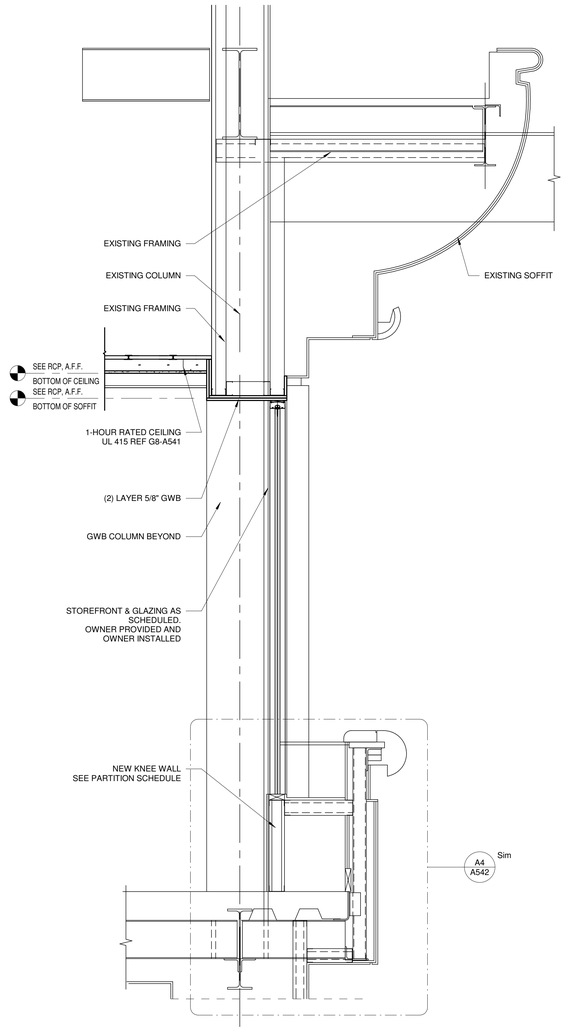
CHECK BY:	KC/MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A304.2



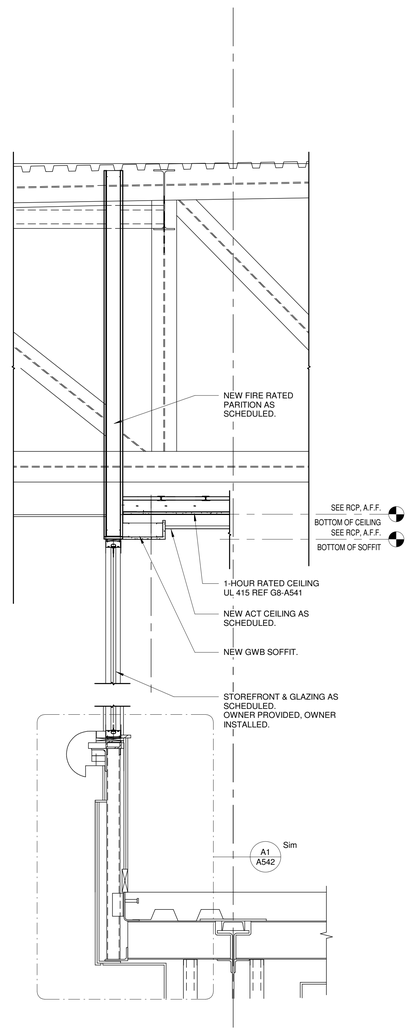
A2 / A321 — STOREFRONT WALL DETAIL

SCALE: 3/4" = 1'-0"



A5 / A321 — STOREFRONT WALL DETAIL - SUITE A

SCALE: 3/4" = 1'-0"



A8 / A321 — STOREFRONT WALL DETAIL AT AREA 2

SCALE: 3/4" = 1'-0"

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BID DOCUMENTS

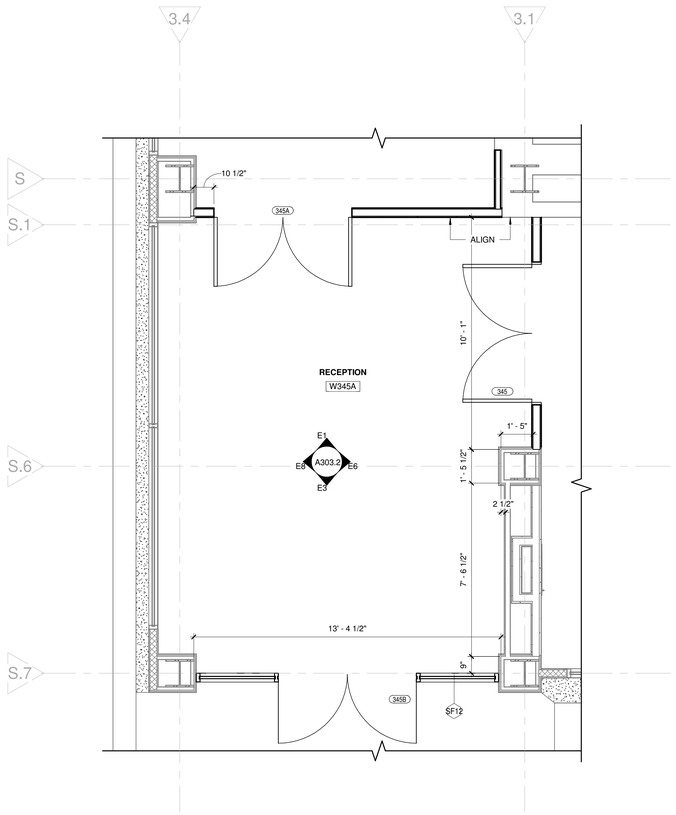
NOT FOR CONSTRUCTION

DATE	SUBMISSION/REVISION	NO.

WALL SECTIONS

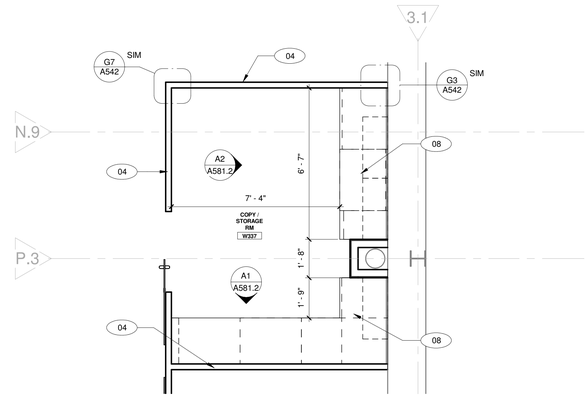
SCALE:	3/4" = 1'-0"
DRAWN BY:	KC
CHECK BY:	MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A321



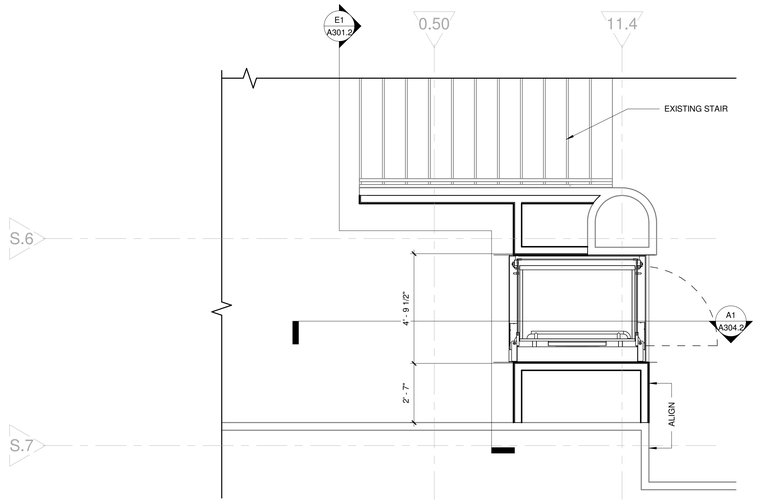
D1 / A401.2 — RECEPTION AREA

SCALE: 3/8" = 1'-0"



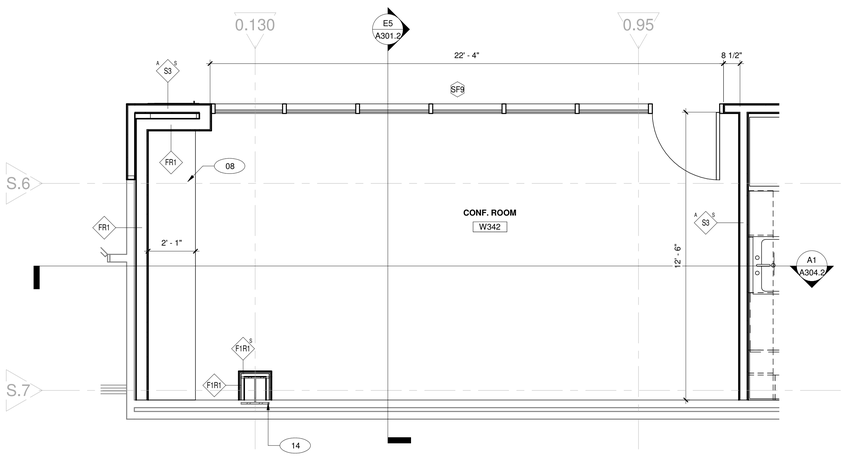
E5 / A401.2 — COPY/ STORAGE ROOM

SCALE: 3/8" = 1'-0"



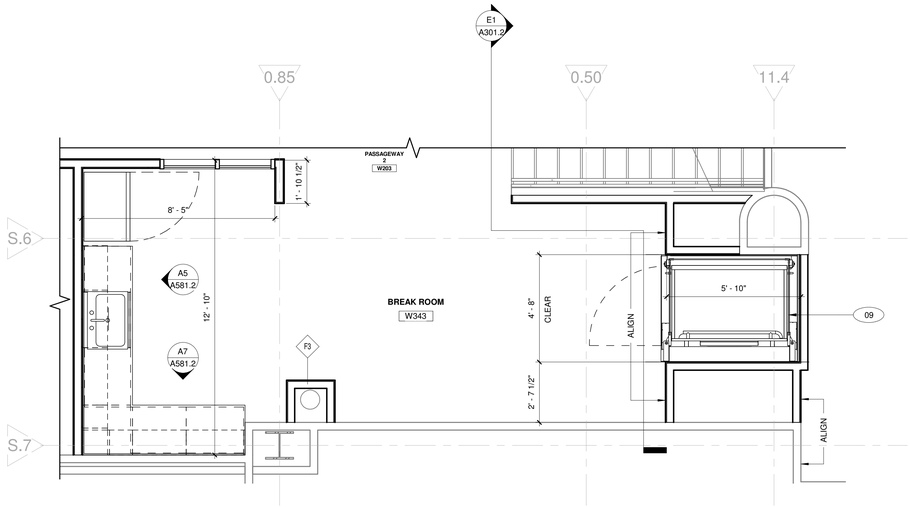
D5 / A401.2 — T.O. EXSTG LANDING

SCALE: 3/8" = 1'-0"



A1 / A401.2 — CONFERENCE ROOM ENLARGED PLAN

SCALE: 3/8" = 1'-0"



A5 / A401.2 — BREAKROOM ENLARGED PLAN

SCALE: 3/8" = 1'-0"

KEYNOTE LEGEND

04	MODULAR OFFICE. BASIS OF DESIGN: TRENDWAY-VOLO SERIES. COORDINATE WITH INTERIORS AND SPECIFICATIONS.
08	NEW MILLWORK COORDINATE W/ INTERIORS.
09	NEW AUTOMATED 36" X 60" VERTICAL PLATFORM LIFT. BASIS OF DESIGN, MFR: SAVARIA V1504 W/ ENCLOSURE AND AUTOMATIC DOOR. COORDINATE POWER W/ ELEC. DRAWINGS.
14	PATCH AND REPAIR WALL W/ INFILL AS NEEDED WHERE HALF COLUMN IS REMOVED. SAND, FINISH AND PREP FOR NEW WALL FINISHES. COORDINATE WITH INTERIOR ELEVATIONS.

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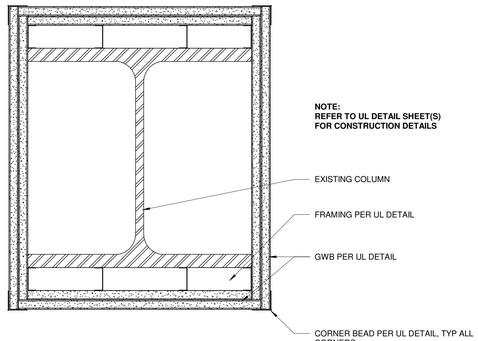
ENLARGED PLANS

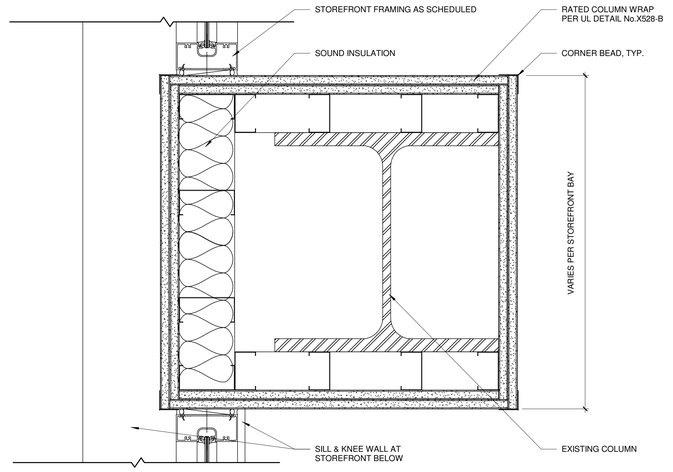
SCALE:	3/8" = 1'-0"
DRAWN BY:	AT
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A401.2



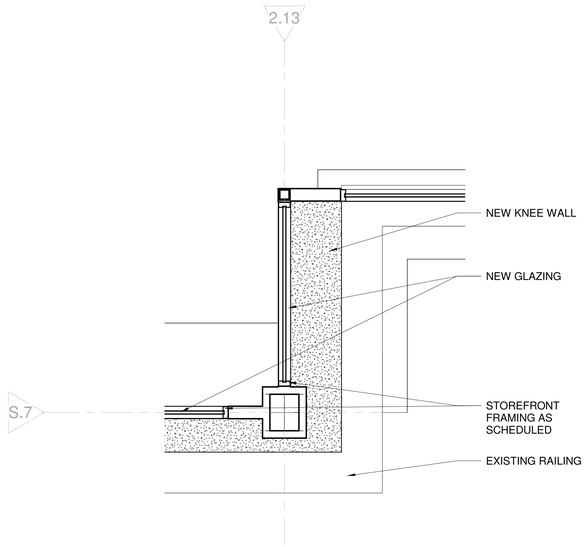
D5 / A541 — COLUMN WRAP-1 HR UL X528-B, TYP.

SCALE: 3" = 1'-0"



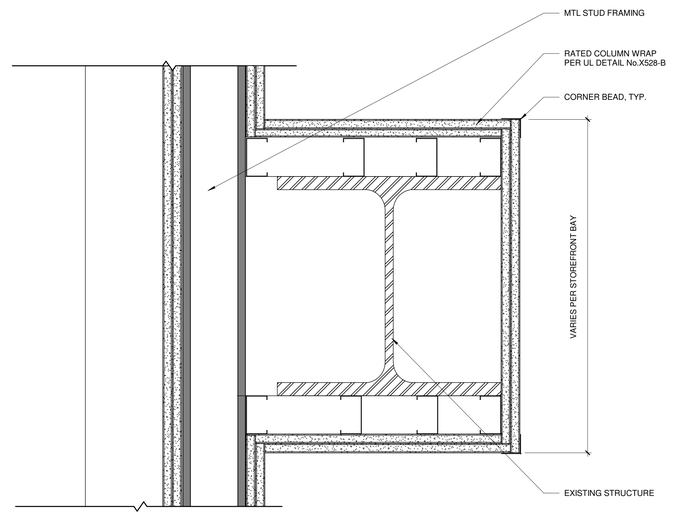
D8 / A541 — COLUMN WRAP @STOREFRONT - WALL LOCATION

SCALE: 3" = 1'-0"



A5 / A541 — ENLARGED PLAN DETAIL AT KNEE WALL

SCALE: 1/2" = 1'-0"



A8 / A541 — COLUMN WRAP @ STOREFRONT - BEAM LOCATION

SCALE: 3" = 1'-0"

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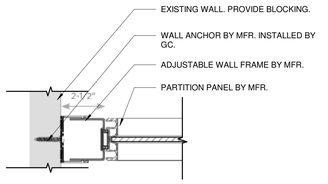
DETAILS

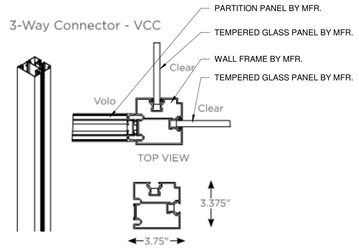
SCALE:	As indicated
DRAWN BY:	KC
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A541



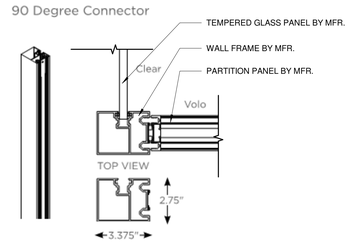
G3 A542 TRENDWAY_WALL CONNECTION_4

SCALE: NTS



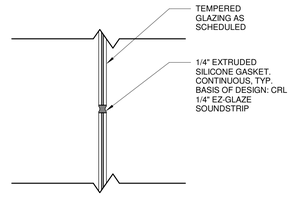
G5 A542 TRENDWAY_WALL CONNECTION_2

SCALE: NTS



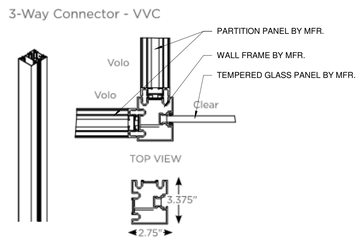
G7 A542 TRENDWAY_WALL CONNECTION_5

SCALE: NTS



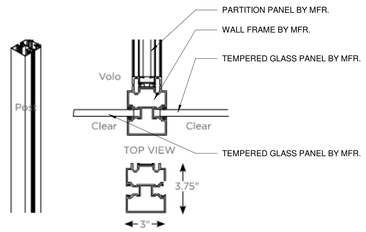
G9 A542 STOREFRONT - BUTT GLAZE

SCALE: 6" = 1'-0"



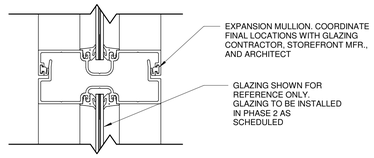
E3 A542 TRENDWAY_WALL CONNECTION_3

SCALE: NTS



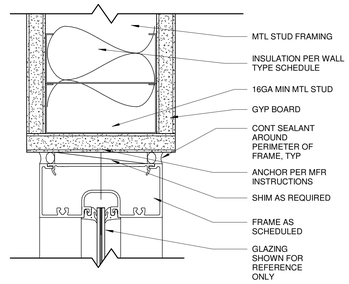
E5 A542 TRENDWAY_WALL CONNECTION

SCALE: NTS



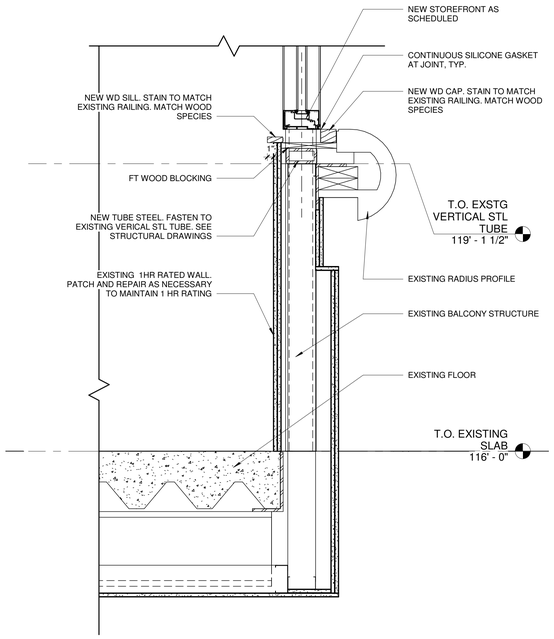
E7 A542 STOREFRONT - EXPANSION MULLION

SCALE: 6" = 1'-0"



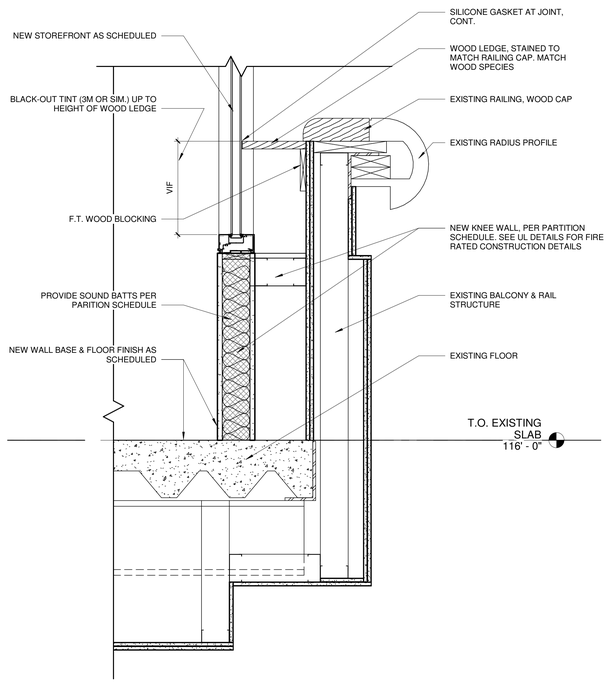
E9 A542 STOREFRONT - HEAD DTL

SCALE: 6" = 1'-0"



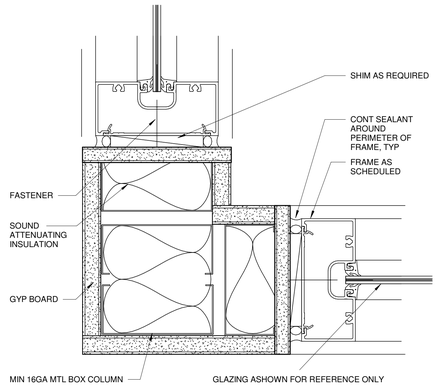
A1 A542 BALCONY RAIL-STOREFRONT DTL

SCALE: 1 1/2" = 1'-0"



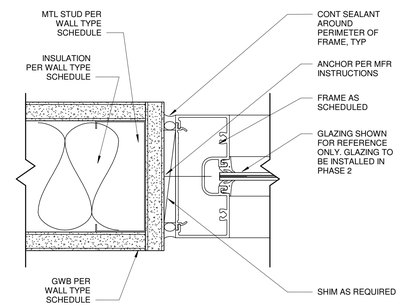
A4 A542 KNEE WALL DETAIL

SCALE: 1 1/2" = 1'-0"



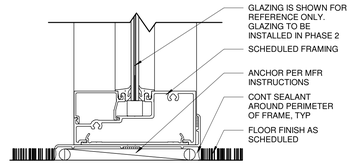
C7 A542 STOREFRONT - JAMB DTL @ CORNER

SCALE: 6" = 1'-0"



A7 A542 STOREFRONT - JAMB DTL

SCALE: 6" = 1'-0"



A9 A542 STOREFRONT - SILL DTL

SCALE: 6" = 1'-0"

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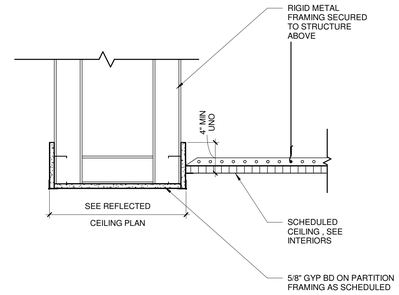
DETAILS

SCALE:	As indicated
DRAWN BY:	KC
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

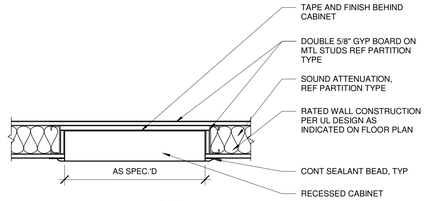
A542



CEILING SOFFIT DETAIL

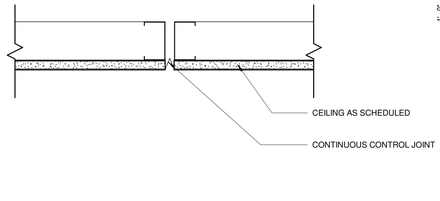
E7 / A543

SCALE: 1 1/2" = 1'-0"



PLAN

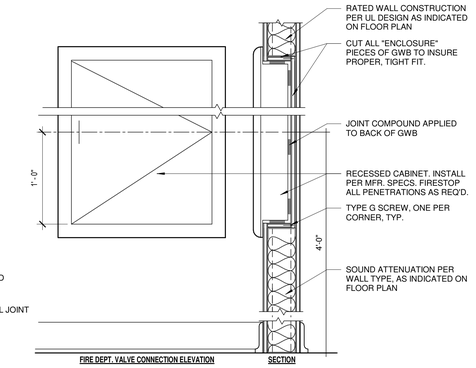
NOTE:
FIRE STOP ALL PENETRATIONS THROUGH RATED ENCLOSURE PER UL DETAILS



CEILING CONTROL JOINT

C7 / A543

SCALE: 3" = 1'-0"



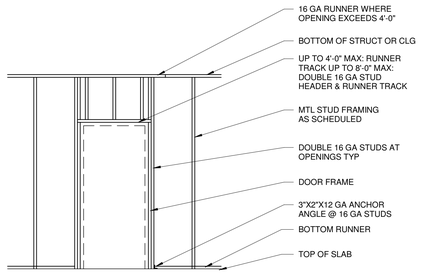
FIRE DEPT. VALVE CONNECTION ELEVATION

SECTION

RECESSED FDVC CABINET - RATED WALL

C9 / A543

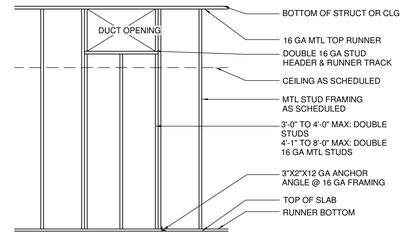
SCALE: 1 1/2" = 1'-0"



MTL STUD WALL AT DOOR OPG

A7 / A543

SCALE: 1/2" = 1'-0"



MTL STUD WALL AT DUCT OPG

A9 / A543

SCALE: 1/2" = 1'-0"

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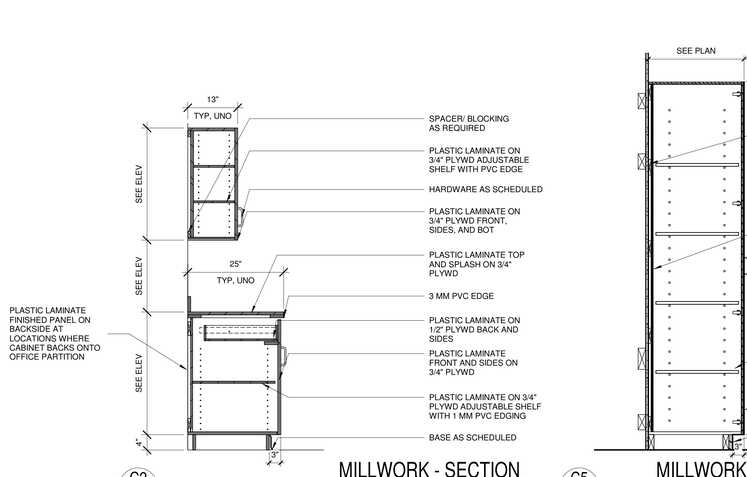
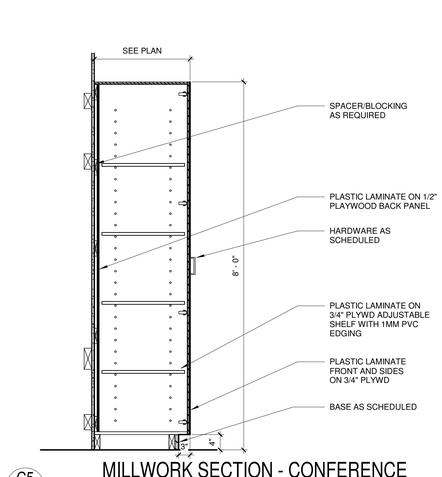
A543



C2
A581.2

MILLWORK - SECTION

SCALE: 3/4" = 1'-0"



C5
A581.2

MILLWORK SECTION - CONFERENCE

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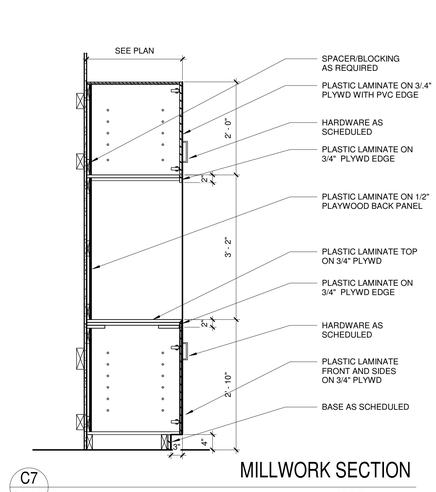
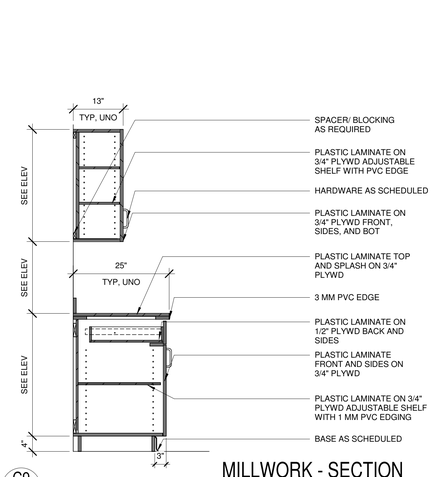


C7
A581.2

MILLWORK SECTION

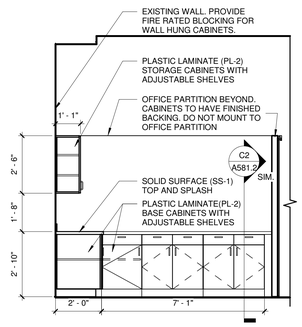
SCALE: 3/4" = 1'-0"



C9
A581.2

MILLWORK - SECTION

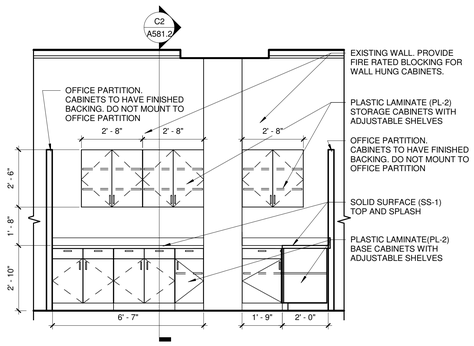
SCALE: 3/4" = 1'-0"



A1
A581.2

COPY ROOM MILLWORK-2

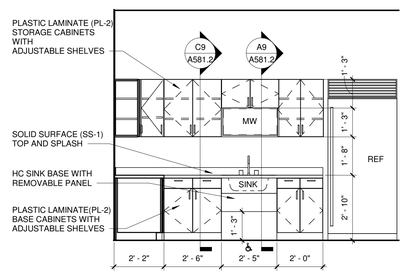
SCALE: 3/8" = 1'-0"



A2
A581.2

COPY ROOM MILLWORK-1

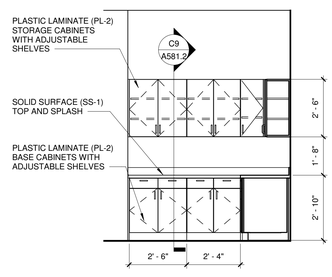
SCALE: 3/8" = 1'-0"



A5
A581.2

BREAKROOM MILLWORK ELEVATION

SCALE: 3/8" = 1'-0"



A7
A581.2

BREAKROOM MILLWORK ELEVATION

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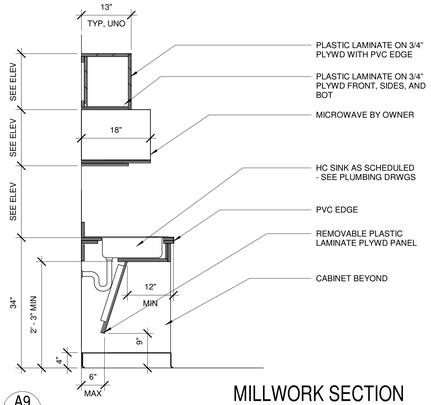

A9
A581.2

MILLWORK SECTION

SCALE: 3/4" = 1'-0"

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MILLWORK ELEVATIONS & DETAILS

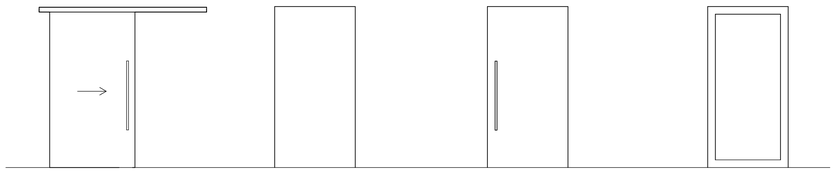
SCALE:	As indicated
DRAWN BY:	AT
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A581.2

DOOR SCHEDULE

MARK	ROOM NUMBER	ROOM NAME	DOOR SIZE	THICK	DOOR MAT'L	DOOR FINISH	DOOR TYPE	DOOR GLAZ	FRAME MAT'L	FRAME TYPE	FRAME GLAZ	FRAME FINISH	HARDWARE	NOTES
203	W203	PASSAGEWAY 2	(2) 3'-0" x 7'-0"	1 3/4"	SCWD	FF	B	-	HM	F1	-	PNT	2	EXIT DEVICE, CARD ACCESS
330	W330	LOBBY	(2) 3'-0" x 7'-0"	1 3/4"	SCWD	FF	B	-	AL	SF11	-	PNT	3	EXIT DEVICE, CARD ACCESS
331	W331	OFFICE	3'-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF7	G1	FF	1	SLIDING
332	W332	OFFICE	3'-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF7	G1	FF	1	SLIDING
333	W333	OFFICE	3'-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF7	G1	FF	1	SLIDING
334	W334	OFFICE (W3)	3'-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF7	G1	FF	1	SLIDING
342	W342	CONF. ROOM	3'-0" x 7'-0"	1 3/4"	GL	FF	C	G2	AL	SF9	G2	FF	5	-
345	W345A	RECEPTION	(2) 3'-0" x 7'-0"	1 3/4"	SCWD	FF	B	-	HM	F1	-	PNT	4	EXIT DEVICE
345A	W345A	RECEPTION	(2) 3'-0" x 7'-0"	1 3/4"	SCWD	FF	B	-	HM	F1	-	PNT	4	EXIT DEVICE
345B	W345A	RECEPTION	(2) 3'-0" x 7'-0"	1 3/4"	AL/GL	FF	D	G2	AL	SF12	G1	FF	3	EXIT DEVICE, CARD ACCESS
362	W362	OFFICE	3-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF8	G1	FF	1	SLIDING
363	W363	OFFICE	3-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF8	G1	FF	1	SLIDING
364	W364	OFFICE	3-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF8	G1	FF	1	SLIDING
365	W365	OFFICE	3-6" x 7'-0"	1 3/4"	GL	FF	A	G2	AL	SF8	G1	FF	1	SLIDING

Grand total: 14



TYPE A
SLIDING GLASS DOOR

TYPE B
SOLID CORE FLUSH DOOR

TYPE C
GLASS DOOR

TYPE D
ALUM/GLASS DOOR

DOOR TYPES

G3 / A601.2 — scale: NTS

DOOR MATERIAL ABBREVIATIONS

AL	ALUMINUM
CR	ACCESS CONTROL CARD READER
DBL	DOUBLE DOORS
FF	FACTORY FINISH
GL	GLAZING
HCWD	HOLLOW CORE WOOD DOOR
HM	HOLLOW METAL DOOR OR FRAME
N/A	NOT APPLICABLE
PNT	PAINTED
STL	STEEL
SCWD	SOLID CORE WOOD DOOR
STC	SOUND TRANSMITTING COEFFICIENT
X	INDICATES LABEL, CLOSER OR ELECT. LOCK IS INCLUDED

GLAZING MATERIAL TYPES

G1	1/4" FROSTED TEMPERED GLASS
G2	1/4" CLEAR TEMPERED GLASS

DOOR SCHEDULE NOTES

1. ACCESS-CONTROLLED CARD READER AT THIS LOCATION: REFER TO ELECTRICAL / TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION
2. EXISTING DOOR. CONTRACTOR TO PROVIDE HARDWARE AS INDICATED AND TO MATCH TO BASE BUILDING HARDWARE AND FINISH.
3. PROVIDE GLASS DOOR COMPATIBLE DEADBOLT LOCK
4. PROVIDE GLASS DOOR COMPATIBLE ELECTRONIC LOCK AND CARD READER
5. DOOR FINISH TO BE APPLIED TO ELEVATOR LOBBY-SIDE DOOR FACE AND FRAME

HARDWARE SCHEDULE

HARDWARE GROUP NO. 1 FOR USE ON DOOR # REFER TO DOOR SCHEDULE AND SPECIFICATIONS
Provide each SL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	THUMBTURN CYLINDER	4066	130	ADA
1	EA	TWO POINT DEADBOLT	MS1837	628	ADA
1	EA	INTERCHANGEABLE CORE CYLINDER	AS REQUIRED BY OWNER	626	BST
2	EA	LONG DOOR PULL	9264F 36" O	630-316	IVE

NOTE: BALANCE OF SLIDING DOOR HARDWARE BY MFG.

HARDWARE GROUP NO. 2 FOR USE ON DOOR # REFER TO DOOR SCHEDULE AND SPECIFICATIONS
Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	CONT. HINGE	224HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	FIRE EXIT HARDWARE	9849-L-F-E996-03-FSE-CON-SNB-24VDC	626	VON
1	EA	FIRE EXIT HARDWARE	9849-EO-F-SNB	626	VON
1	EA	INTERCHANGEABLE CORE CYLINDER	AS REQUIRED BY OWNER	626	BST
2	EA	SURFACE CLOSER	4040XP CUSH TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	GASKETING	31AA-S	AA	ZER
1	EA	GASKETING	99A-S	A	ZER
2	EA	WIRE HARNESS	CON-192P		SCH
2	EA	WIRE HARNESS	CON-6W		SCH
2	EA	WIRE HARNESS	CON-38P		SCH
1	EA	MULTITECH READER	MTK15	BLK	SCE

NOTE: POWER SUPPLY TO EXIT DEVICE IS PROVIDED BY THE SECURITY CONTRACTOR.
FUNCTIONAL DESCRIPTION: AUTHORIZED CREDENTIAL UNLOCKS OUTSIDE LEVER FOR MANUAL INGRESS THRU OPENING. EGRESS IS ALWAYS AVAILABLE.

HARDWARE GROUP NO. 3 FOR USE ON DOOR # REFER TO DOOR SCHEDULE AND SPECIFICATIONS
Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD EPT	628	IVE
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	PANIC HARDWARE	9849-L-E996-03-FSE-CON-SNB-24VDC	626	VON
1	EA	PANIC HARDWARE	9849-EO-SNB	626	VON
1	EA	INTERCHANGEABLE CORE CYLINDER	AS REQUIRED BY OWNER	626	BST
2	EA	SURFACE CLOSER	4040XP CUSH TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	GASKETING	99A-S	A	ZER
1	EA	GASKETING	31AA-S	AA	ZER
2	EA	WIRE HARNESS	CON-192P		SCH
2	EA	WIRE HARNESS	CON-38P		SCH
2	EA	WIRE HARNESS	CON-6W		SCH
1	EA	MULTITECH READER	MTK15	BLK	SCE

NOTE: POWER SUPPLY TO EXIT DEVICE IS PROVIDED BY THE SECURITY CONTRACTOR.
FUNCTIONAL DESCRIPTION: AUTHORIZED CREDENTIAL UNLOCKS OUTSIDE LEVER FOR MANUAL INGRESS THRU OPENING. EGRESS IS ALWAYS AVAILABLE.

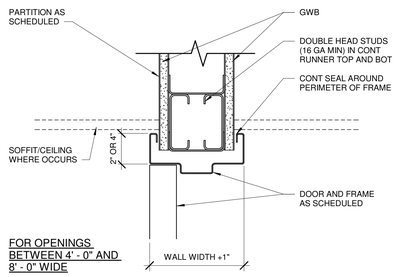
HARDWARE GROUP NO. 4 FOR USE ON DOOR # REFER TO DOOR SCHEDULE AND SPECIFICATIONS
Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	9849-EO-SNB	626	VON
1	EA	PANIC HARDWARE	9849-L-03-SNB	626	VON
1	EA	INTERCHANGEABLE CORE CYLINDER	AS REQUIRED BY OWNER	626	BST
2	EA	SURFACE CLOSER	4040XP CUSH TBSRT	689	LCN
2	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	GASKETING	31AA-S	AA	ZER
1	EA	GASKETING	99A-S	A	ZER

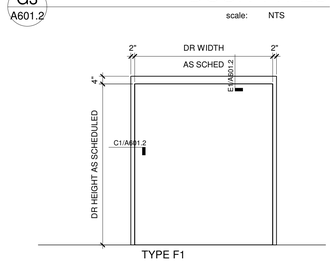
HARDWARE GROUP NO. 5 FOR USE ON DOOR # REFER TO DOOR SCHEDULE AND SPECIFICATIONS
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	BOTTOM RAIL DEADLOCK	MS1850S	628	ADA
1	EA	THUMBTURN CYLINDER	4066	130	ADA
1	EA	INTERCHANGEABLE CORE CYLINDER	AS REQUIRED BY OWNER	626	BST
2	EA	LONG DOOR PULL	9264F 36" O	630-316	IVE
1	EA	SURFACE CLOSER	4040XP CUSH TBSRT	689	LCN

NOTE: WEATHERSTRIPPING BY ALUMINUM DOOR/FRAME MFG.

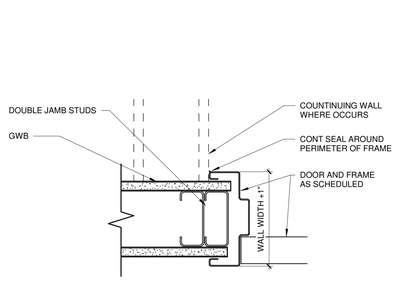


E1 / A601.2 — HM FRAME - HEAD — SCALE: 3" = 1'-0"

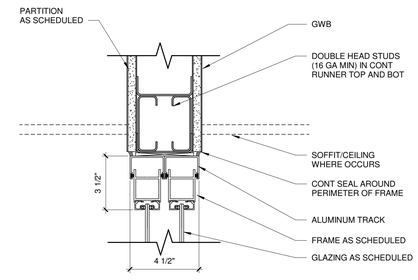


TYPE F1

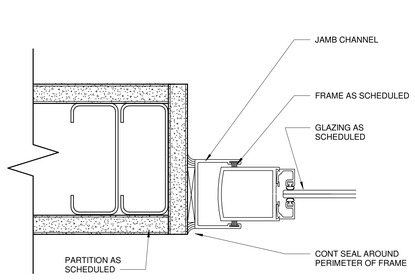
E3 / A601.2 — HM FRAME TYPE — scale: NTS



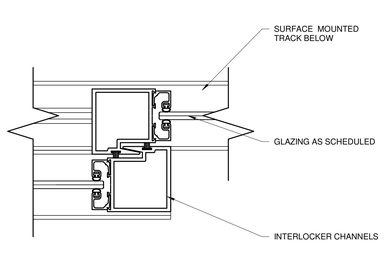
C1 / A601.2 — HM FRAME - JAMB — SCALE: 3" = 1'-0"



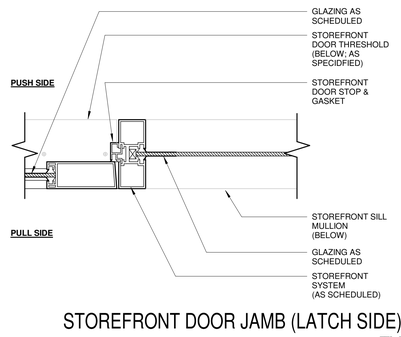
C3 / A601.2 — SLIDING GLASS DOOR - HEAD — SCALE: 3" = 1'-0"



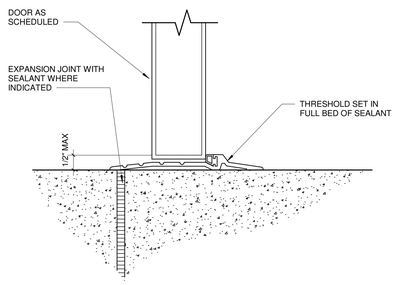
C5 / A601.2 — SLIDING GLASS DOOR - JAMB — SCALE: 6" = 1'-0"



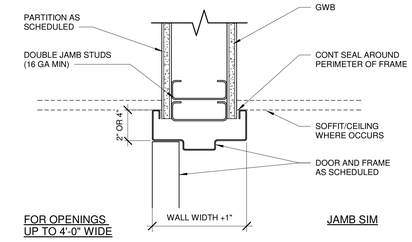
C7 / A601.2 — SLIDING GLASS - AT MEETING STILE — SCALE: 6" = 1'-0"



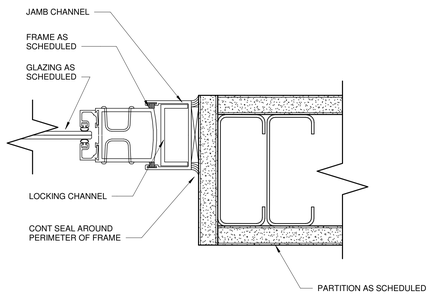
C9 / A601.2 — STOREFRONT DOOR JAMB (LATCH SIDE) - TYP — SCALE: 3" = 1'-0"



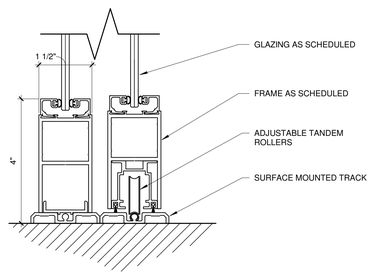
A1 / A601.2 — TYPICAL THRESHOLD DETAIL — SCALE: 3" = 1'-0"



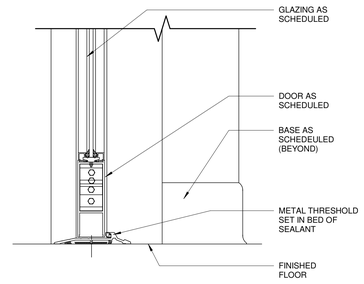
A3 / A601.2 — HM FRAME - HEAD — SCALE: 3" = 1'-0"



A5 / A601.2 — SLIDING GLASS DOOR - LOCKING JAMB — SCALE: 6" = 1'-0"



A7 / A601.2 — SLIDING GLASS DOOR - SILL — SCALE: 6" = 1'-0"



A9 / A601.2 — STOREFRONT DOOR THRESHOLD - TYP — SCALE: 3" = 1'-0"

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Seal

Maximiano Brito, RA AIA
FL Reg. No. AR0015108

BID DOCUMENTS
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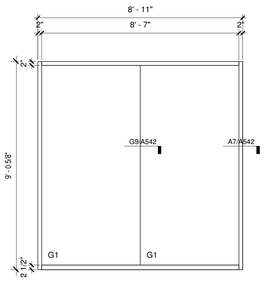
DATE	SUBMISSION/REVISION	NO.

DOOR SCHEDULE & DETAILS

SCALE:	As indicated
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

A601.2



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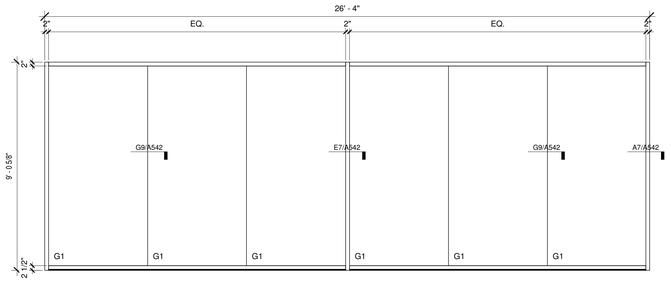

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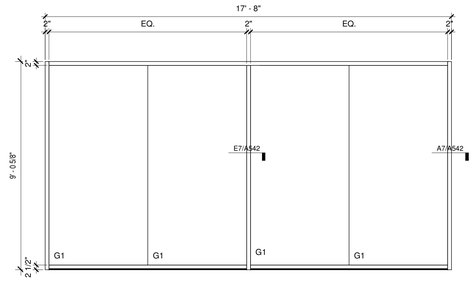
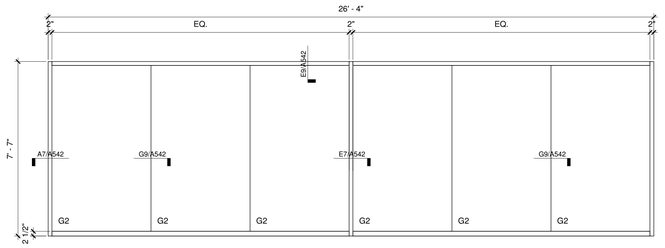
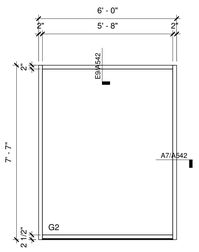


TYPE SF3



TYPE SF4



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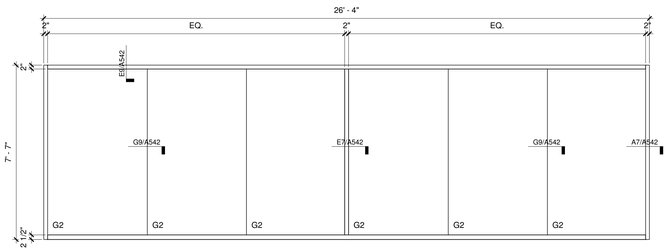
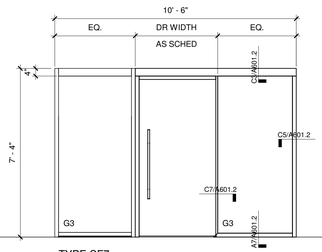
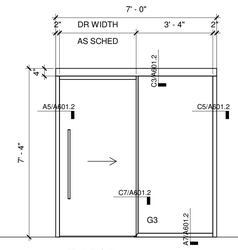


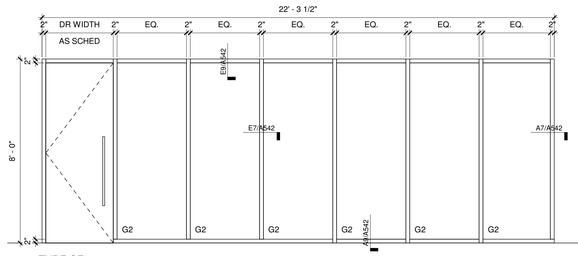
TYPE SF6



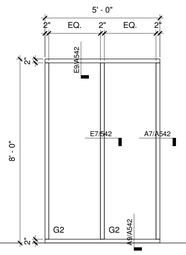
TYPE SF7



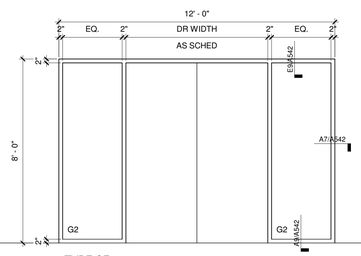
TYPE SF8



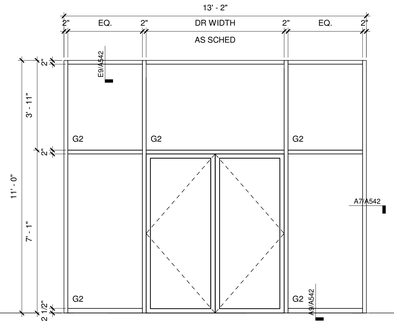
TYPE SF9



TYPE SF10



TYPE SF11



TYPE SF12

C1
A602.2

STOREFRONT TYPES

SCALE: 3/8" = 1'-0"

STOREFRONT MATERIAL ABBREVIATIONS

AL	ALUMINUM
DBL	DOUBLE DOORS
FF	FACTORY FINISH
GL	GLAZING
HCWD	HOLLOW CORE WOOD DOOR
N/A	NOT APPLICABLE
PNT	PAINTED
SCWD	SOLID CORE WOOD DOOR
STC	SOUND TRANSMITTING COEFFICIENT
X	INDICATES LABEL, CLOSER OR ELECT. LOCK IS INCLUDED

GLAZING MATERIAL TYPES

G1	1/4" CLEAR TEMPERED GLASS, OWNER PROVIDED-OWNER INSTALLED EXISTING GLAZING SIZE: 4'-4" W X 8'-9"H, VERIFY WITH OWNER AS NEEDED
G2	1/4" CLEAR TEMPERED GLASS
G3	1/4" FROSTED, TEMPERED GLASS

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FL Reg. No. AR0015108

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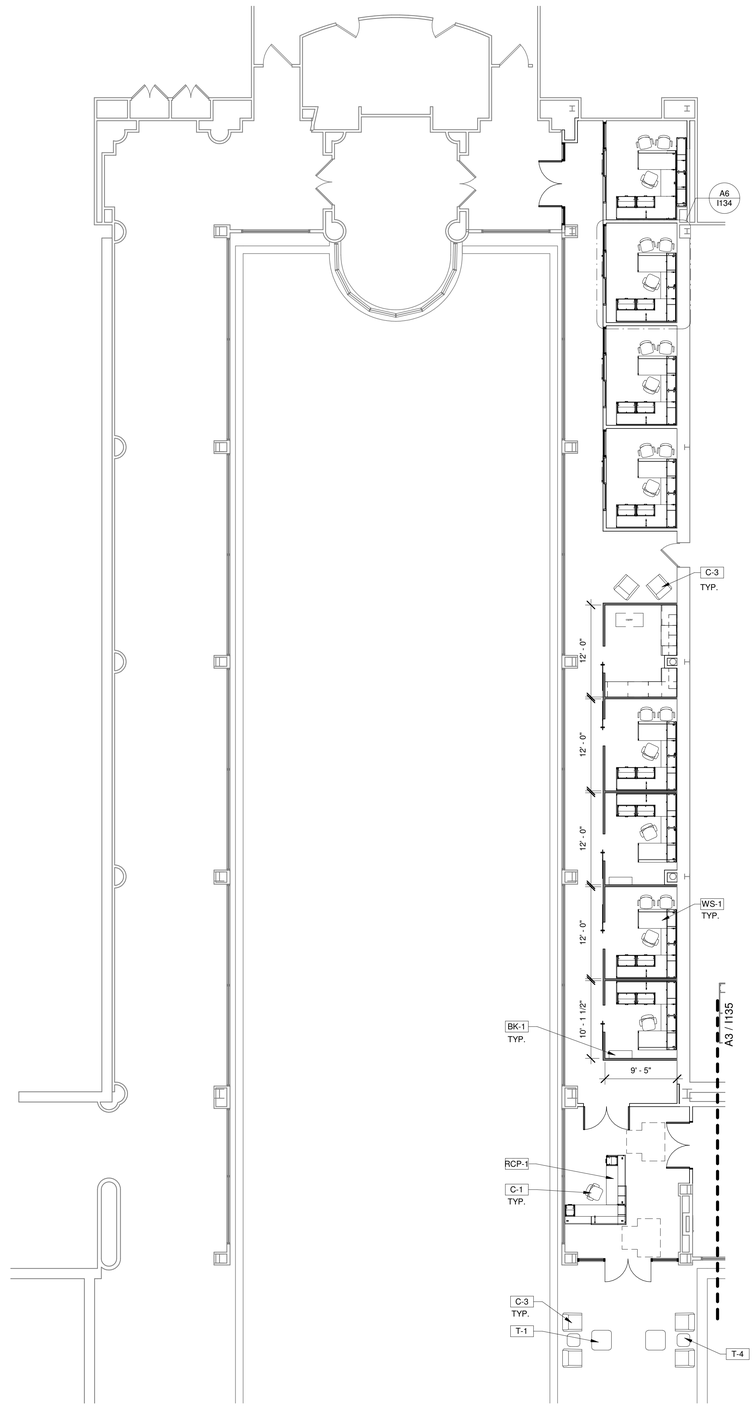
DATE	SUBMISSION/REVISION	NO.

STOREFRONT SCHEDULE

SCALE:	3/8" = 1'-0"
DRAWN BY:	DP
CHECK BY:	KC / MB
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

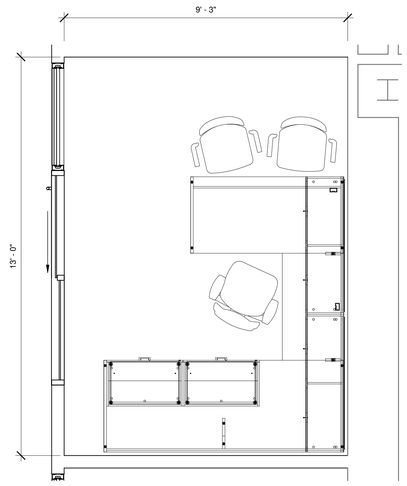
A602.2



A1 LEVEL 3 - AREA 1 - FURNITURE PLAN
1/8" = 1'-0"

FINISH MATERIAL LEGEND

CODE	DESCRIPTION	MANUFACTURER	SERIES	COLOR	COMMENTS
BASE					
VB-1	VINYL BASE	JOHNSONITE	4" BASE	63 BURNT UMBER	--
CEILING					
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CALLA HIGH CAC - SQUARE TEGULAR 2X2	WHITE, SMOOTH	W/ARMSTRONG SUPRAFINE GRID
GWB-1	GYPSUM WALL BOARD CEILING - PAINTED	- -	SHERWIN WILLIAMS	SW6995 SUPERWHITE	ALL NEW GWB CEILINGS AND SOFFITS
GWB-2	GENERAL WALL PAINT	- -	MATCH EXISTING	MATCH EXISTING	--
FLOORS					
CPT-1	CARPET TILE	INTERFACE	HEAD OVER HEELS, M0771, COLOR: 186618	CUSTOM COLOR	FOR USE IN CONFERENCE ROOM; CUSTOM COLOR REQUESTED BY OWNER
LVT-1	LUXURY VINYL TILE	ARMSTRONG	EARTH CUTS	MERADA NA397	FOR USE IN BREAK ROOM AND ADJACENT ENTRY VESTIBULE
MILLWORK					
PL-1	LAMINATE	PIONITE	--	GROUNDSWELL AT700	SUEDE FINISH
PL-2	LAMINATE	WILSONART	--	BRIGHTON WALNUT 7922K-07	TEXTURED GLOSS FINISH
PL-3	LAMINATE	WILSONART	--	ALMOND LEATHER 2932-60	MATTE FINISH
SS-1	SOLID SURFACING	CORIAN	--	LIMESTONE PRIMA	--



A6 LEVEL 3 - TYPICAL OFFICE
1/2" = 1'-0"

NORTH

GENERAL PLAN NOTES

1. THE INTENT AND PURPOSE OF THESE DRAWINGS ARE FOR INFORMATION & PRICING ONLY, NOT FOR CONSTRUCTION.
2. ALL DIMENSIONS ARE FROM INTERIOR FACE OF GYPSUM BOARD TO INTERIOR FACE OF GYPSUM BOARD.
3. PER CURRENT FLORIDA BUILDING CODE, ENERGY CODE, PROVIDE A MINIMUM OF ONE WALL OR CEILING MOUNTED OCCUPANCY SENSOR PER ROOM. FOR OPEN SPACES, PROVIDE ONE OCCUPANCY SENSOR PER 2,000 SF. OCCUPANCY SENSORS SHALL BE SENSOR SWITCH PASSIVE DUAL TECHNOLOGY OR EQUAL.
4. ALL SUITES, PER CURRENT FBC, SHALL BE PROVIDED W/ LIFE SAFETY EQUIPMENT SUCH AS FIRE EXTINGUISHERS, EXIT SIGNS & FIRE ALARM DEVICES.
5. PATCH AND REPAIR EXISTING INTERIOR FINISHES AS NECESSARY, AFFECTED BY ANY DEMOLITION. INTERIOR FINISHES TO MATCH ADJACENT EXISTING FINISHES.
6. ALL EQUIPMENT TO BE PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
7. ALL FURNITURE TO BE PROVIDED BY OWNER & INSTALLED BY VENDOR, SHOULD NEW FURNITURE BE PURCHASED. REFER TO FURNITURE SPECIFICATIONS.
8. TYPICAL DOOR WIDTH TO BE 3'-0", U.N.O.
9. TYPICAL WALL BASE TO BE 6"H RESILIENT BASE. COVE BASE AT RESILIENT FLOORING, STRAIGHT BASE AT CARPET.

ABBREVIATIONS

BK-1	BOOKCASE
C	CHAIR
RD	RECEPTION
S	SOFA
T	TABLE
WS	WORKSTATION
M.E.	MATCH EXISTING

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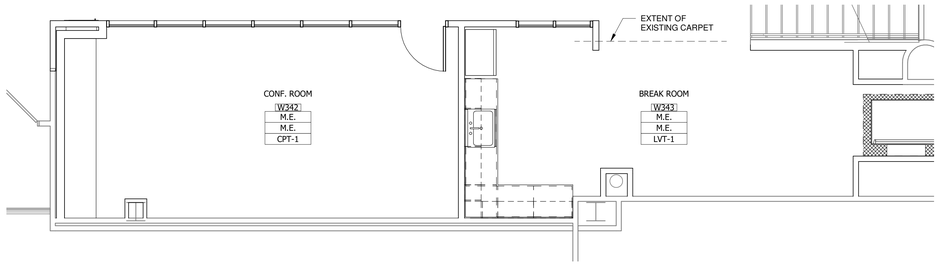
DATE	SUBMISSION/REVISION	NO.

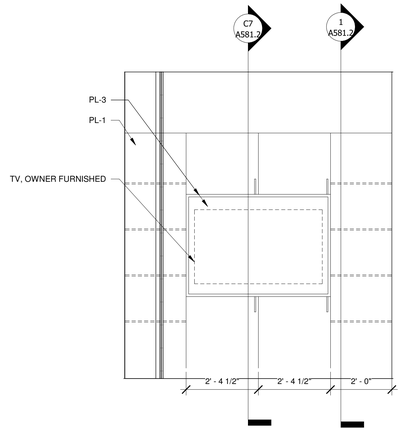
FURNITURE PLAN - AREA 1 AND FINISH LEGEND

SCALE:	As indicated
DRAWN BY:	MC
CHECK BY:	NC
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

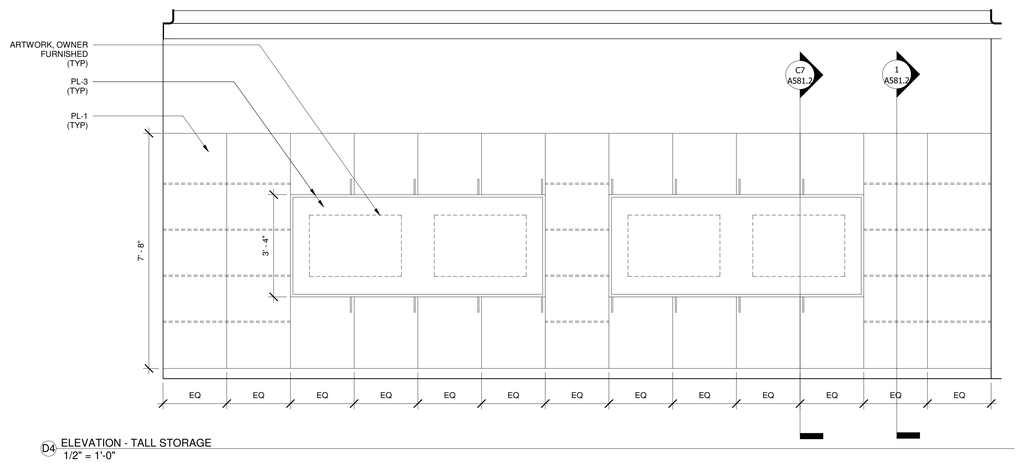
I134



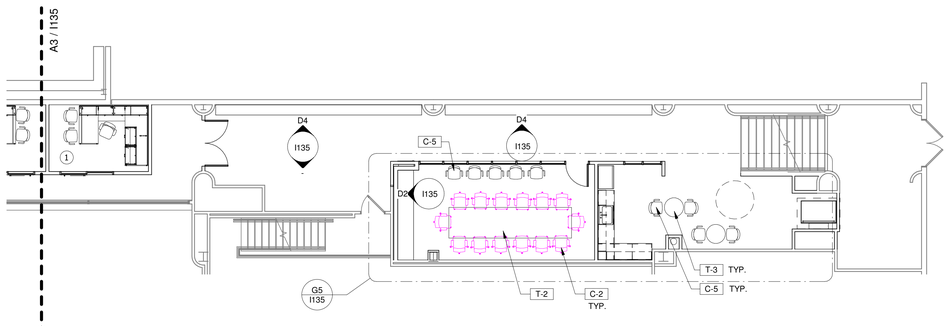
G5 ENLARGED PLAN - FLOOR FINISH PLAN
1/4" = 1'-0"



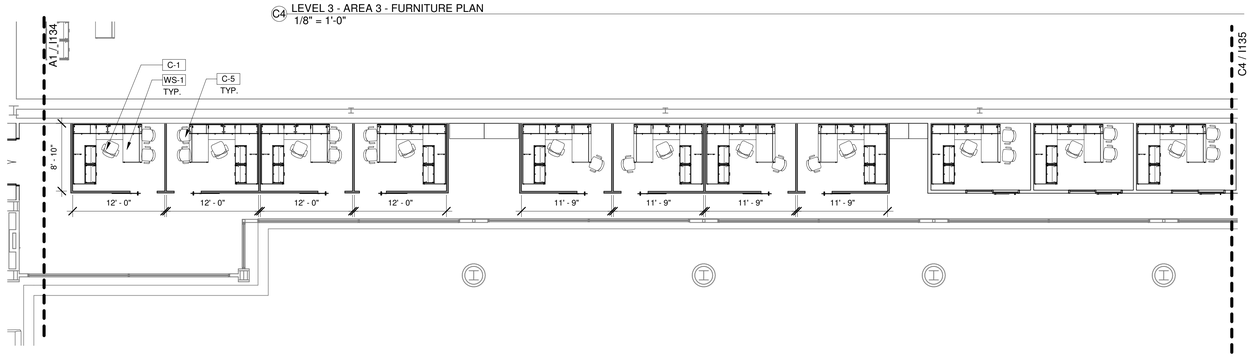
D2 ELEVATION - CONF. RM MILLWORK
1/2" = 1'-0"



D4 ELEVATION - TALL STORAGE
1/2" = 1'-0"



C4 LEVEL 3 - AREA 3 - FURNITURE PLAN
1/8" = 1'-0"



A3 LEVEL 3 - AREA 2 - FURNITURE PLAN
1/8" = 1'-0"

GENERAL PLAN NOTES

1. THE INTENT AND PURPOSE OF THESE DRAWINGS ARE FOR INFORMATION & PRICING ONLY, NOT FOR CONSTRUCTION.
2. ALL DIMENSIONS ARE FROM INTERIOR FACE OF GYPSUM BOARD TO INTERIOR FACE OF GYPSUM BOARD.
3. PER CURRENT FLORIDA BUILDING CODE, ENERGY CODE, PROVIDE A MINIMUM OF ONE WALL OR CEILING MOUNTED OCCUPANCY SENSOR PER ROOM. FOR OPEN SPACES, PROVIDE ONE OCCUPANCY SENSOR PER 2,000 SF. OCCUPANCY SENSORS SHALL BE SENSOR SWITCH PASSIVE DUAL TECHNOLOGY OR EQUAL.
4. ALL SUITES, PER CURRENT FBC, SHALL BE PROVIDED W/ LIFE SAFETY EQUIPMENT SUCH AS FIRE EXTINGUISHERS, EXIT SIGNS & FIRE ALARM DEVICES.
5. PATCH AND REPAIR EXISTING INTERIOR FINISHES AS NECESSARY, AFFECTED BY ANY DEMOLITION. INTERIOR FINISHES TO MATCH ADJACENT EXISTING FINISHES.
6. ALL EQUIPMENT TO BE PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
7. ALL FURNITURE TO BE PROVIDED BY OWNER & INSTALLED BY VENDOR, SHOULD NEW FURNITURE BE PURCHASED. REFER TO FURNITURE SPECIFICATIONS.
8. TYPICAL DOOR WIDTH TO BE 3'-0", U.N.O.
9. TYPICAL WALL BASE TO BE 6"H RESILIENT BASE. COVE BASE AT RESILIENT FLOORING, STRAIGHT BASE AT CARPET.

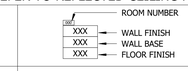
ABBREVIATIONS

BK-1	BOOKCASE
C	CHAIR
RD	RECEPTION
S	SOFA
T	TABLE
WS	WORKSTATION
M.E.	MATCH EXISTING

FOR ROOM FINISH SCHEDULE:
REFER TO SHEET I134

FOR CEILING FINISHES:
REFER TO REFLECTED CEILING PLANS

ROOM FINISH MARKER (APPLIES TO ENTIRE ROOM)



WALL FINISH MARKER (APPLIES TO AREAS AS SHOWN)

IF WALL FINISH MARKER IS NOT USED, THEN ROOM FINISH MARKER GOVERNS THE ENTIRE ROOM. SEE ELEVATIONS FOR CLARITY.

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DATE	SUBMISSION/REVISION	NO.

FURNITURE PLAN - AREA 2/AREA 3

SCALE:	As indicated
DRAWN BY:	MC
CHECK BY:	NC
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

I135

SPRINKLER SYSTEM GENERAL NOTES

A PROVIDE A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM FOR AREAS INDICATED. SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND THE FIFTH EDITION OF THE FLORIDA FIRE PREVENTION CODE. CONTRACTOR IS RESPONSIBLE FOR FINAL SPRINKLER SYSTEM LAYOUT. CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED FOR A FULLY OPERATIONAL SPRINKLER SYSTEM.

B DRAWINGS HEREIN REPRESENT A DIAGRAMMATIC SPRINKLER LAYOUT. CONTRACTOR IS RESPONSIBLE FOR FINAL SPRINKLER SYSTEM PIPE LAYOUT AND SIZING AND COORDINATING WITH OTHER BUILDING SYSTEMS & DEVICES WHETHER SHOWN OR NOT.

C CONTRACTOR SHALL ENSURE EXISTING SYSTEM HYDRAULIC CALCULATIONS REMAIN UNALTERED BY WORK OF THIS SCOPE

D SPRINKLER SYSTEM HYDRAULIC CALCULATIONS SHALL INCORPORATE A MINIMUM 10% SAFETY FACTOR

E ALL SPRINKLERS IN AREAS WITH ACOUSTICAL CEILING TILES SHALL BE MOUNTED IN THE CENTER OF 2' x 2' GRIDS, AND CENTERED IN 1/2 OF TILE IN 2' x 4' GRIDS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING FINISHES & TYPES

F SPRINKLERS SHALL BE QUICK RESPONSE TYPE UNLESS OTHERWISE NOTED ON DRAWINGS.

G ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS AND/OR DECKS SHALL BE APPROPRIATELY FIRE-STOPPED IN ACCORDANCE WITH UL-LISTINGS.

H PIPING SHALL BE INSTALLED CONCEALED ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED

I PIPING SHALL BE INSTALLED EXPOSED IN UNFINISHED CEILING AREAS AND STAIRWELLS UNLESS OTHERWISE NOTED. LOCATE PIPING TIGHT TO STRUCTURE AND ABOVE OTHER SYSTEMS WHEREVER POSSIBLE. ALL EXPOSED PIPING IN FINISHED ROOM AREAS ARE SUBJECT TO OWNER'S REPRESENTATIVE'S REVIEW

J WHERE CONNECTING TO EXISTING SPRINKLER SYSTEM INFRASTRUCTURE, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIAL AND EQUIPMENT REQUIRED TO FACILITATE CONNECTION

SPRINKLER SYSTEM IMPAIRMENT NOTES

A PRIOR TO REMOVING ANY FIRE PROTECTION SYSTEM FROM SERVICE THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE OWNER, LOCAL FIRE DEPARTMENT, AND CODE ENFORCEMENT OFFICIAL IN WRITING A MINIMUM OF 48 HOURS PRIOR TO REMOVAL OF SYSTEM FROM SERVICE. THE NOTIFICATION SHALL INCLUDE THE DATE AND TIME THE SYSTEM WILL BE INOPERABLE AND THE PROJECTED DATE AND TIME WHEN THE SYSTEM WILL BE RESTORED

B DURING ANY FIRE PROTECTION SYSTEM OUTAGES THE BUILDING SHALL BE PROVIDED WITH A FIRE WATCH BY THE FIRE CODE OF FLORIDA. THE SOLE RESPONSIBILITY OF THE INDIVIDUAL ASSIGNED TO THE WATCH SHALL BE TO PERFORM CONSTANT PATROLS OF THE IMPAIRED AREA TO KEEP WATCH FOR FIRES. THE FIRE WATCH SHALL BE PROVIDED WITH AN APPROVED MEANS OF NOTIFICATION FOR THE FIRE DEPARTMENT. CONTRACTOR SHALL CONFIRM WITH LOCAL CODE OFFICIALS IF A TEMPORARY SYSTEM IS REQUIRED TO BE PROVIDED FOR THE DURATION OF IMPAIRMENT.

C THE FIRE DEPARTMENT CONNECTION SHALL BE AFFIXED WITH AN OUT OF SERVICE SIGN WHENEVER THE SPRINKLER SYSTEM MAIN CONTROL VALVE IS CLOSED. THE SIGN SHALL BE PROVIDED, INSTALLED, AND POLICED BY THE FIRE PROTECTION CONTRACTOR.

D ALL FIRE PROTECTION SYSTEM IMPAIRMENTS SHALL OCCUR IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE, FIFTH EDITION.

E THE SYSTEM IMPAIRMENT FOR THE SCOPE OF WORK HEREIN SHALL BE CONDUCTED AS A PRE-PLANNED IMPAIRMENT. CONTRACTOR SHALL ASSEMBLE ALL TOOLS, PERSONNEL, AND EQUIPMENT ONSITE PRIOR TO REMOVAL OF SERVICE IN ORDER TO MINIMIZE IMPAIRMENT TIME.

F WITHIN 24 HOURS OF RESTORING ANY FIRE PROTECTION SYSTEM TO SERVICE THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE IN WRITING TO THE OWNER, LOCAL FIRE DEPARTMENT, AND CODE ENFORCEMENT OFFICIAL CERTIFICATION THAT THE FOLLOWING HAS BEEN IMPLEMENTED:

1) ALL INSPECTIONS AND TESTS HAVE BEEN COMPLETED TO ENSURE THE AFFECTED SYSTEM IS OPERATIONAL
2) THE OUT OF SERVICE SIGN HAS BEEN REMOVED FROM THE FIRE DEPARTMENT CONNECTION
3) THE OWNER AND/OR OCCUPANT HAVE BEEN INSTRUCTED ON THE OPERATION OF THE SYSTEM
4) ALL THIRD PARTY MONITORING ENTITIES HAVE BEEN ADVISED THAT THE SYSTEM IS IN SERVICE.

SPRINKLER SYSTEM SPECIFICATIONS

CODE INFORMATION

A ALL WORK OF THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CODES & STANDARDS:
1) NFPA 13, 2010 EDITION
2) FLORIDA FIRE PREVENTION CODE, FIFTH EDITION

GENERAL SPECIFICATIONS

A ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH LOCAL ORFDINANCES AND CODES LISTED ABOVE.

B ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THIS SCOPE, INCLUDING ALL FEES OR EXPENSES INCURRED.

C ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE GUARANTEED IN WRITING FOR (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE FACILITY BY THE OWNER.

D THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AT ALL TIMES, A COMPLETE AND CURRENT SET OF CONTRACT DRAWINGS AND SHOP DRAWINGS.

E AL LWORK SHALL BE SUBJECT TO INSPECTION BY THE ARCHITECT, ENGINEER, OWNER AND AUTHORITY HAVING JURISDICTION. A PROPERLY EXECUTED CERTIFICATE OF INSPECTION SHALL BE PROVIDED UPON COMPLETION.

F PRIOR TO SUBMISSION OF OF PRICING OR EXECUTION OF THESE CONTRACT DRAWINGS, THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE AND CONTRACT DOCUMENTS, INCLUDING SPECIFICATIONS MANUAL IF PROVIDED. NO CLAIM FOR EXTRA COMPENSATION WILL BE RECOGNIZED FOR ITEMS THAT WOULD HAVE BEEN REVEALED, HAD THE CONTRACTOR INVESTIGATED EXISTING CONDITIONS PRIOR TO EXECUTION OF THESE DOCUMENTS.

G ALL WORK OF THIS CONTRACT SHALL BE COORDINATED WITH THE WORK OF ALL OTHER TRADES.

H CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING WORK BEFORE, DURING, AND AFTER INSTALLATION

I CONTRACTOR SHALL PERFORM ALL TESTS IN ACCORDANCE WITH NFPA BEFORE, DURING, AND AFTER EXECTUION OF THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE RESULTS OF ALL TESTS TO ENGINEER OF RECORD AND OWNER.

J THE CONTRACT DRAWINGS HEREIN ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND DESIGN INTENT OF THE FIRE PROTECTION SYSTEM. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIPE, RISE, DROP, FITTING, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL ALL THE NECESSARY COMPONENTS FOR A FULLY FUNCTIONAL AND CODE-COMPLIANT SYSTEM.

K FIRE PROTECTION SERVICES SHALL BE MAINTAINED IN ALL AREAS DURING CONSTRUCTION ACTIVITIES. IF AN INTERRUPTION OF SERVICE BECOMES NECESSARY, CONTRACTOR SHALL REFER TO SPRINKLER IMPAIRMENT NOTES. THIS WORK SHALL BE COORDINATED WITH THE OWNER AND OTHER CONTRACTORS, SO AS NOT TO INTERRUPT FACILITY OPERATIONS.

SCOPE

A THE WORK OF THIS SECTION CONSISTS OF ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PROVIDE ALL FIRE PROTECTION WORK AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN, AND AS AS NECESSARY FOR A FUNCTIONAL AND SAFE INSTALLATION.

B THE EXTENT OF THE FIRE PROTECTION SCOPE SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:
1) COMPLETE AUTOMATIC WET AND/OR DRY FIRE SUPPRESSION SPRINKLER SYSTEM
2) PIPE ROUTING AND SPRINKLER LAYOUT SHOP DRAWINGS WITH ASSOCIATED HYDRAULIC CALCULATIONS
3) SUBMITTALS AND ACCEPTANCE TESTING

MATERIALS AND PRODUCTS

PIPE AND FITTINGS

A SCH 40 BLACK STEEL PIPE WITH BLACK CAST IRON SCREWED SPRINKLER FITTINGS SUITABLE FOR 175 PSI WORKING PRESSURE

PIPE SLEEVES, HANGERS, AND SUPPORTS

A ALL PIPING SHALL BE ADEQUATELY SUPPORTED FROM BUILDING STRUCTURAL ELEMENTS IN ACCORDANCE WITH NFPA 13 AND MANUFACTURER'S RECOMMENDATIONS.

B AT FLOOR PENETRATIONS PROVIDE SCH 40 STEEL SLEEVES, EXTENDING 1" ABOVE FINISHED FLOOR AND MAKE WATER TIGHT. SEAL ANNULAR SPACE WITH MATERIAL/PRODUCT THAT MAINTAINS FIRE RATING.

C AT EXTERIOR WALL PENETRATIONS PROVIDE FIRE-RATED LINK SEAL PENETRATION CLOSURE.

SPRINKLERS

A SPRINKLERS SHALL BE GLASS BULB, QUICK RESPONSE TYPE 155F, 5.6 K-FACTOR

B SPRINKLERS SHALL BE PENDENT TYPE TO MATCH EXISTING

C PROVIDE SPARE SPRINKLERS, CABINET, AND WRENCH AS REQUIRED BY NFPA 13

D ESCUTCHEON AND SPRINKLER FINISH SHALL BE DETERMINED BY ARCHITECT AND/OR OWNER

E APPROVED MANUFACTURERS ARE: TYOC, RELIABLE, VIKING, OR APPROVED EQUAL

PIPE IDENTIFICATION

A ALL FIRE PROTECTION PIPING SHALL BE LABELED AT EACH BRANCH, AT EACH PASSAGE THROUGH PARTITIONS/FLOORS, AND AT INTERVALS OF NO MORE THAN 20'. LABELS SHALL BE SEMI-RIGID ASME PIPE MARKERS WITH ARROWS INDICATING THE DIRECTION OF FLOW.

HAZARD CLASSIFICATION & DESIGN CRITERIA

A LIGHT HAZARD SHALL BE 0.10 GPM/SQFT OVER 1,500 SQFT

B ORDINARY HAZARD GROUP SHALL BE 0.15 GPM/SQFT OVER 1,500 SQFT

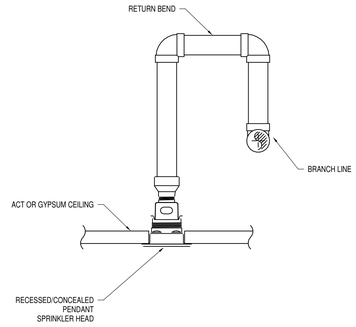
C MAXIMUM PROTECTION AREA PER SPRINKLER SHALL NOT EXCEED 130 SQFT

D PROVIDE 250 GPM HOSE ALLOWANCE

E SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY DESIGNED AND CALCULATED BY THE FIRE PROTECTION CONTRACTOR. THE CONTRACTOR SHALL SUBMIT ALL CALCULATIONS TO PROVE THE HYDRAULICALLY MOST REMOTE AREAS ARE BEING PROTECTED. FABRICATION DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED AND STAMPED APPROVED BY THE ENGINEER OF RECORD AND INSURANCE UNDERWRITERS PRIOR TO INSTALLATION OF ELEMENTS IN THESE CONTRACT DRAWINGS. MAINTAIN A MINIMUM OF 10 PSI SAFETY FACTOR BETWEEN THE REQUIRED PRESSURE AND AVAILABLE PRESSURE. COMPLY WITH ALL UNDERWRITERS' AND CODE AUTHORITY'S REQUIREMENTS, INCLUDING MAXIMUM WATER FLOW VELOCITY IN THE FIRE PROTECTION SYSTEM.

F CONTRACTOR SHALL REFER TO AND COMPLY WITH FLORIDA STATUTE 61G15-32, AS IT RELATES TO RESPONSIBILITIES OF THE DELEGATED DESIGNER.

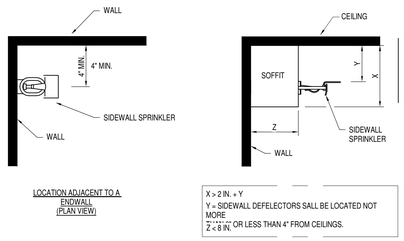
SPRINKLER LEGEND	
○	CONCEALED PENDENT SPRINKLER
◉	PENDENT SPRINKLER
▶	WINDOW SPRINKLER



4 FP100

RECESSED PENDANT SPRINKLER HEAD DETAIL

SCALE: 12" = 1'-0"



LOCATION ADJACENT TO A ENDWALL (PLAN VIEW)

X > 2 IN. + Y
Y = SIDEWALL DEFELECTORS SALL BE LOCATED NOT MORE
Z < 8 IN. OR LESS THAN 4" FROM CEILINGS.

INSTALLATION ALONG A SOFFIT (ELEVATION VIEW)

GENERAL (ELEVATION VIEW)

5 FP100

SIDEWALL SPRINKLER HEAD DETAILS

SCALE: 12" = 1'-0"

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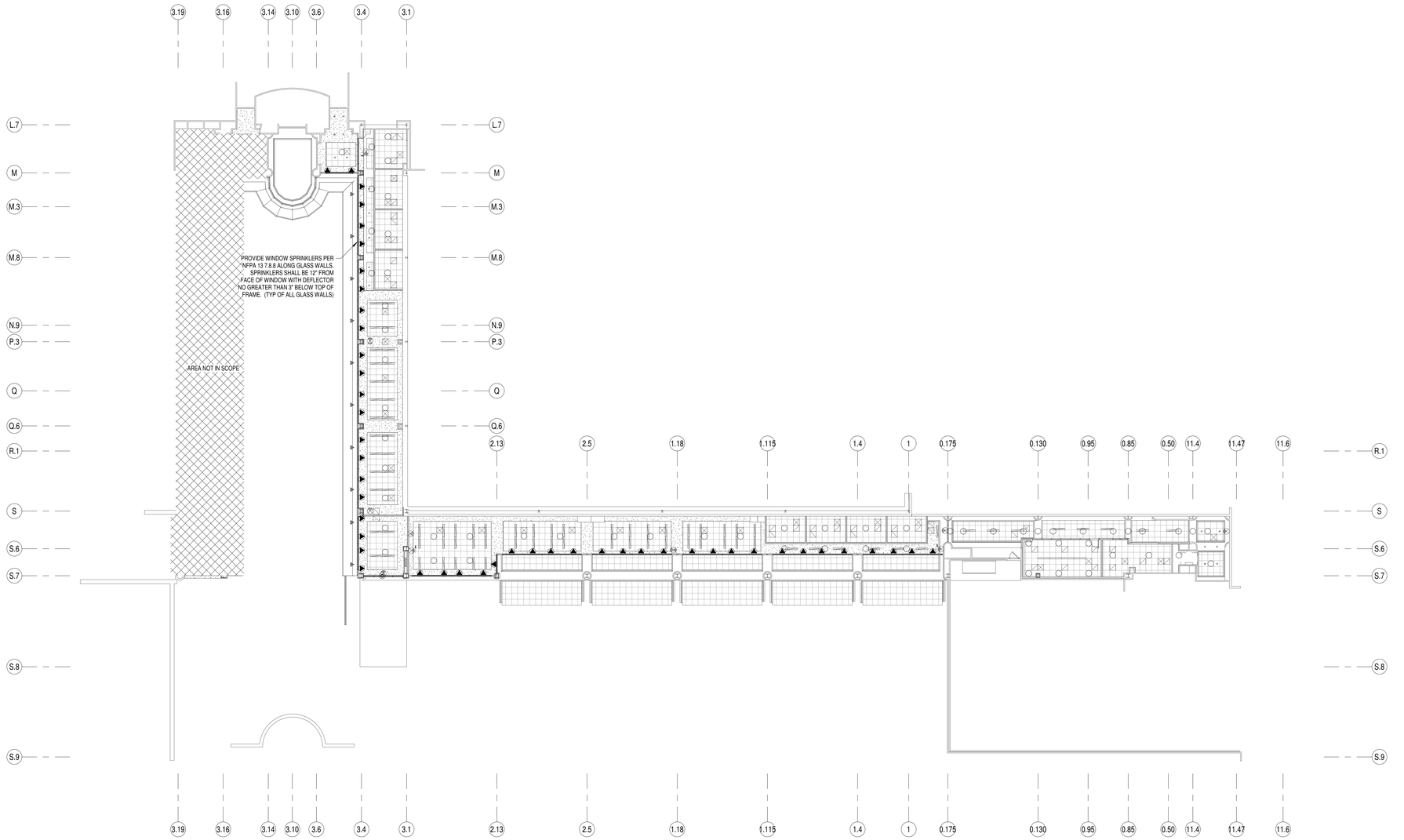
DATE	SUBMISSION/REVISION	NO.

GENERAL NOTES AND DETAILS

SCALE:	As indicated
DRAWN BY:	R. PARSONS
CHECK BY:	B. CURRIE
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

FP100



1
FP130

FIRE PROTECTION

SCALE: 1/16" = 1'-0"

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SECOND FLOOR SPRINKLER LAYOUT

SCALE:	1/16" = 1'-0"
DRAWN BY:	R. PARSONS
CHECK BY:	B. CURRIE
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

FP130

1. ALL PIPE DIMENSIONS ARE NOMINAL.
2. ALL WORK SHALL CONFORM TO THE 2017 FLORIDA BUILDING CODE.
3. CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS AND DIMENSIONS INDICATED ON PLANS.
4. CONTRACTOR SHALL PERFORM NECESSARY CUTTING AND PATCHING REQUIRED TO INCORPORATE WORK, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL PENETRATIONS RELATED TO PLUMBING SCOPE.
6. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURERS REPRESENTATIVE'S DIRECTIONS.
7. CONTRACTOR TO INSTALL ALL NECESSARY SUPPORTS, HANGERS, BRACES, STRUTS, ETC. WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE AND DURABLE SYSTEM.
8. COORDINATE WORK OF THIS CONTRACT WITH OTHER CONTRACTORS AND EXISTING CONDITIONS.
9. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER TRADES AND EXISTING CONDITIONS.

1 P100 GENERAL NOTES

SCALE: 1/8" = 1'-0"

AFF	ABOVE FINISHED FLOOR
BOP	BOTTOM OF PIPE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
EWC	ELECTRIC WATER COOLER
EWH	ELECTRICAL WATER HEATER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
RTU	ROOF TOP UNIT
SAN	SANITARY
TD	TROUGH DRAIN
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEAN OUT

2 P100 ABBREVIATIONS

SCALE: 1/8" = 1'-0"

—— -DCW- ——	DOMESTIC COLD WATER
—— -DHW- ——	DOMESTIC HOT WATER
——DHWR——	DOMESTIC HOT WATER RECIRCULATION
——G——	GAS
——SAN——	SANITARY
——ST——	STORM
——STO——	STORM OVERFLOW
- - -V- - -	VENT

3 P100 PIPING LEGEND

SCALE: 1/8" = 1'-0"

CONNECT TO EXISTING

DISCONNECT FROM EXISTING

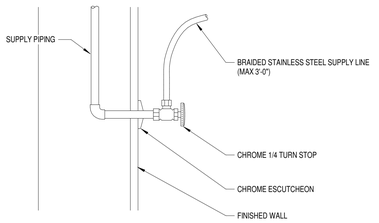
PIPE DOWN

PIPE UP

PIPE BREAK

4 P100 SYMBOL LEGEND

SCALE: 1/8" = 1'-0"



5 P100 TYPICAL FIXTURE ROUGH IN

SCALE: 3" = 1'-0"

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GENERAL NOTES, LEGEND, SYMBOLS, & ABBREVIATIONS

SCALE:	As indicated
DRAWN BY:	R. PARSONS
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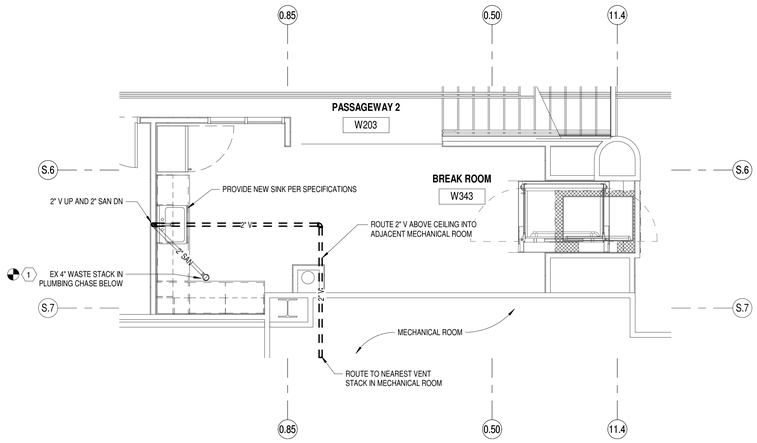
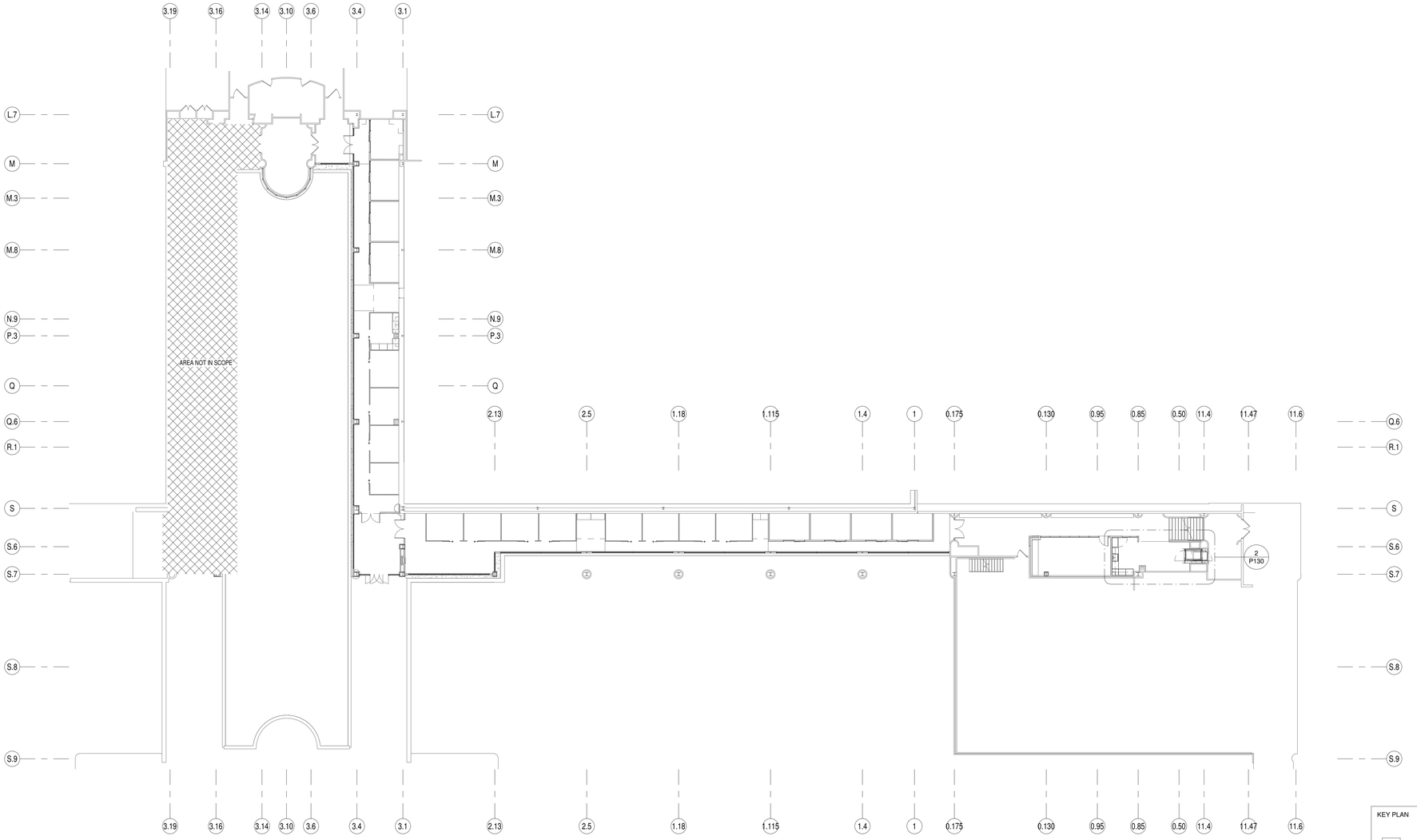


2 P130 BREAKROOM SANITARY PLUMBING

SCALE: 1/4" = 1'-0"



1 P130 SANITARY PLUMBING

SCALE: 1/16" = 1'-0"

KEY PLAN

3

AREA

KEYED SHEET NOTES

1 CONNECT 2" SAN TO EXISTING 4" WASTE STACK IN BATHROOM GROUP BELOW BREAK ROOM

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SANITARY PLUMBING

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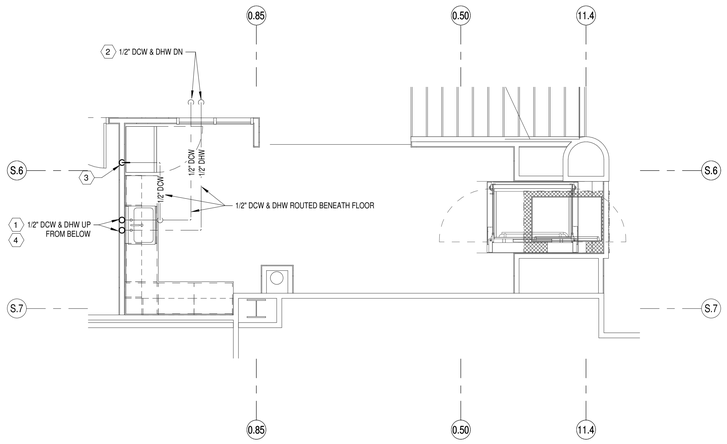
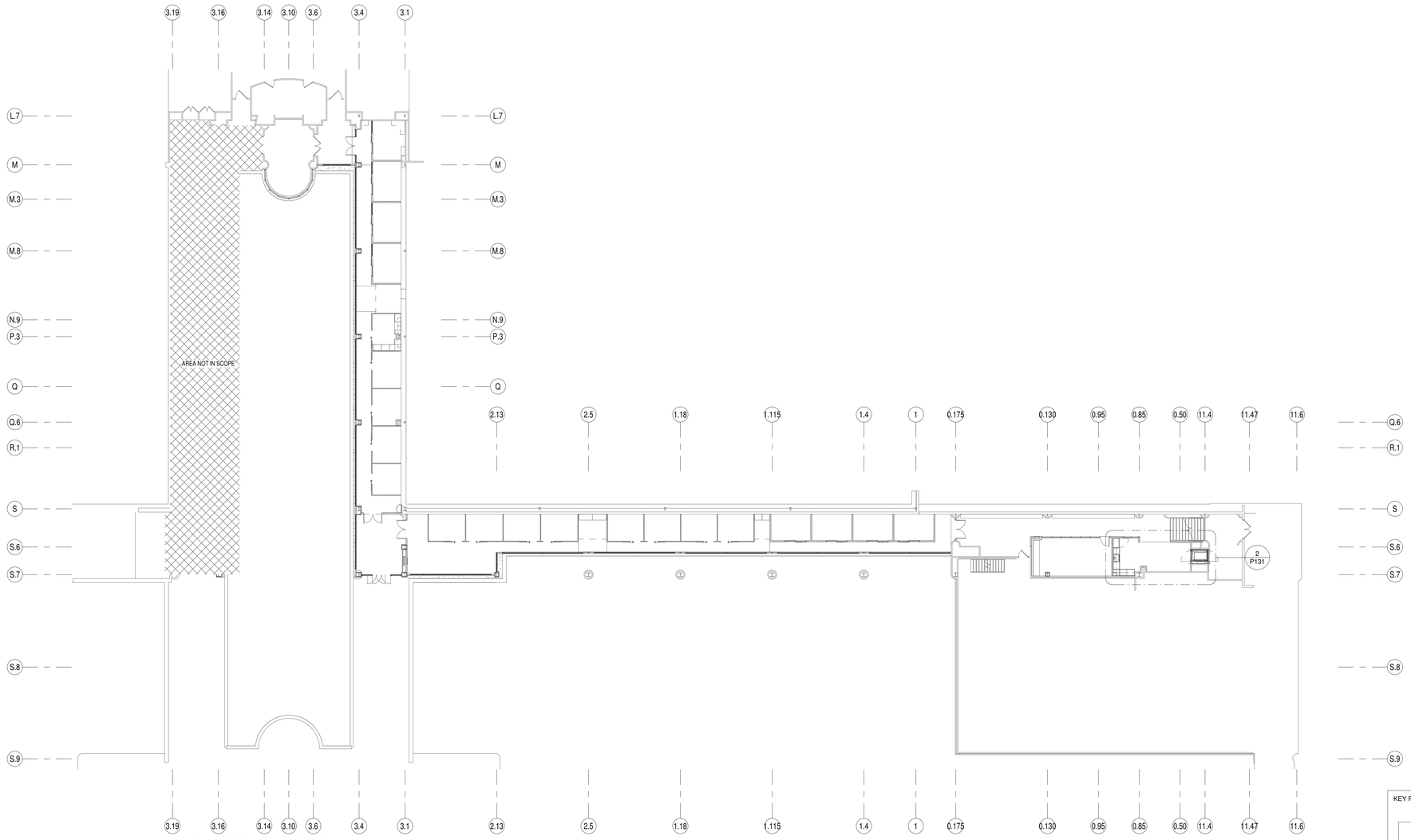


BREAKROOM DOMESTIC PLUMBING

2 / P131

SCALE: 1/4" = 1'-0"



DOMESTIC PLUMBING

1 / P131

SCALE: 1/16" = 1'-0"

KEY PLAN

AREA

3

KEYED SHEET NOTES

1. ROUTE PIPING DOWN INSIDE OF WALL. REFER TO SUPPLY ROUGH-IN DETAIL ON P100.
2. ROUTE PIPING DOWN INTO EXISTING PLUMBING CHASE IN RESTROOMS BELOW BREAK ROOM. CONNECT DCW AND DHW LINES TO EXISTING SUPPLY LINES SERVING LAVS.
3. PROVIDE 1/2" DCW CONNECTION FOR ICE MAKER CONNECTION. MOUNT AT 1'-0" AFF.
4. PROVIDE 1/2" DHW BRANCH FROM LINE FEEDING SINK TO SERVE ADJACENT DISHWASHER. PROVIDE WITH DEDICATED STOP.

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DOMESTIC PLUMBING

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ABBREVIATIONS

AMP	AMPERES	CUH	CABINET UNIT HEATER	FIL	FILTER	LDB	LEAVING DRY BULB TEMPERATURE	SA	SUPPLY AIR
AAD	AUTOMATIC AIR DAMPER	dB	DECIBELS	FSD	COMBINATION FIRE/SMOKE DAMPER	LPC	LOW PRESSURE CONDENSATE	SS	SOLIDS SEPARATOR
ACCU	AIR COOLED CONDENSING UNIT	DB	DRY BULB TEMPERATURE	FMS	FLOW MEASURING STATION	LPS	LOW PRESSURE STEAM	SD	SMOKE DAMPER
ACU	AIR CONDITIONING UNIT	DC	DUST COLLECTOR	FPM	FEET PER MINUTE	LV	LOUVER	SHC	SENSIBLE HEAT CAPACITY
ACV	AIR CONTROL VALVE	DIA	DIAMETER	FR	FURNACE	LWB	LEAVING WET BULB	SP	STATIC PRESSURE
AFF	ABOVE FINISHED FLOOR	DN	DOWN	FT	FEET	LWT	LEAVING WATER TEMPERATURE	SQ	SQUARE
AHU	AIR HANDLING UNIT	DP	DEWPOINT TEMPERATURE	FTR	FIN TUBE RADIATION	MAX	MAXIMUM	SRV	STATIONARY ROOF VENT
APD	AIR PRESSURE DROP	DSD	DUCT SMOKE DETECTOR	GAL	GALLONS	MAU	MAKEUP AIR UNIT	TD	TRIPLE DUTY VALVE
AS	AIR SEPARATOR	DTR	DUAL TEMPERATURE WATER RETURN	GC	GENERAL CONTRACTOR	MBH	1000 BTUH	TDH	TOTAL DYNAMIC HEAD
B	BOILER	DTS	DUAL TEMPERATURE WATER SUPPLY	GPM	GALLONS PER MINUTE	MCA	MINIMUM CIRCUIT AMPACITY	TG	TRANSFER GRILLE
BD	BYPASS DAMPER	DWH	DOMESTIC WATER HEATER	GR	GRAINS	MIN	MINIMUM	THC	TOTAL HEAT CAPACITY
BDD	BACK DRAFT DAMPER	DX	DIRECT EXPANSION	HD	HEAD	MOP	MAXIMUM OVERCURRENT PROTECTION	TSP	TOTAL STATIC PRESSURE
BHP	BRAKE HORSE POWER	EAT	ENTERING AIR TEMPERATURE	HGR	HOT GLYCOL RETURN	MV	MANUAL VENT	TYP	TYPICAL
BOD	BOTTOM OF DUCT	EBB	ELECTRIC BASE BOARD	HGS	HOT GLYCOL SUPPLY	NC	NORMALLY CLOSED	UV	UNIT VENTILATOR
BTU	BRITISH THERMAL UNIT	EC	EXPANSION COMPENSATOR	HP	HORSEPOWER	NIC	NOT IN CONTRACT	V	VOLT
BTUH	BRITISH THERMAL UNIT PER HOUR	EDB	ENTERING DRY BULB TEMPERATURE	HPC	HIGH PRESSURE CONDENSATE	NO	NORMALLY OPEN, NUMBER	VAL	VALANCE UNIT
C	COMMON	EFF	EFFICIENCY	HPS	HIGH PRESSURE STEAM	OA	OUTSIDE AIR	VAV	VARIABLE AIR VOLUME
CCU	CEILING CASSETTE UNIT	ENC	ENCLOSURE	HR	HUMIDITY RATIO, HOUR	P	PUMP	VD	VOLUME DAMPER
CD	COLD CONDENSATE DRAIN	ERU	ENERGY RECOVERY UNIT	HRU	HEAT RECOVERY UNIT	PD	PRESSURE DROP	VIF	VERIFY IN FIELD
CDWS	CONDENSER WATER SUPPLY	ESP	EXTERNAL STATIC PRESSURE	HUM	HUMIDIFIER	PG	PROPYLENE GLYCOL	VP	VACUUM PUMP
CDWR	CONDENSER WATER RETURN	ET	EXPANSION TANK	HWC	HOT WATER COIL	PH	PHASE	VSD	VARIABLE SPEED DRIVE
CFM	CUBIC FEET PER MINUTE	EWB	ENTERING WET BULB TEMPERATURE	HWS	HOT WATER SUPPLY	PSI	POUNDS PER SQUARE INCH	VUV	VERTICAL UNIT VENTILATOR
CH	CHILLER	EWT	ENTERING WATER TEMPERATURE	HWR	HOT WATER RETURN	PTAC	PACKAGED TERMINAL AIR CONDITIONER	WH	UNIT HEATER
CGR	CHILLED GLYCOL RETURN	EXH	EXHAUST AIR	HX	HEAT EXCHANGER	RA	RETURN AIR	WB	WET BULB TEMPERATURE
CGS	CHILLED GLYCOL SUPPLY	EXIST	EXISTING	HZ	HERTZ	RAD	RADIATOR, RADIANT PANEL	WCU	WALL CASSETTE UNIT
CWS	CHILLED WATER SUPPLY	F	FAN	IN	INCH	RCP	RADIANT CEILING PANEL	WFS	WATER FLOW SWITCH
CWR	CHILLED WATER RETURN	°F	FAHRENHEIT	IND	INDUCTION UNIT	RH	RELATIVE HUMIDITY	WG	WATER GAUGE
CO	CLEANOUT	F&T	FLOAT AND THERMOSTATIC TRAP	KH	KILN HOOD	RHC	REHEAT COIL	WH	WALL HEATER
CONV	CONVECTOR	FC	FLEXIBLE CONNECTION	KW	KILOWATT	RPM	REVOLUTION PER MINUTE	WPD	WATER PRESSURE DROP
CP	CONDENSATE PUMP	FCU	FAN COIL UNIT	LAT	LEAVING AIR TEMPERATURE	RTH	RADIANT TUBE HEATER	WWM	WELDED WIRE MESH
CT	COOLING TOWER	FD	FIRE DAMPER	LB	POUND	RTU	ROOF TOP UNIT	ZD	ZONE DAMPER

SYMBOLS

GENERAL

- RETURN WATER
- RETURN WATER
- REMOVALS
- DISCONNECT FROM EXISTING
- CONNECT TO EXISTING
- (T) TEMPERATURE SENSOR WITH LOCKING GUARD
- (P) PRESSURE SENSOR
- (M) DAMPER MOTOR
- DIRECTION OF AIRFLOW

DUCTWORK

- RETURN DIFFUSER
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- SQUARE TO ROUND DUCT TRANSITION
- SQUARE MAIN TO ROUND BRANCH TAKE-OFF
- FC — FLEXIBLE DUCT CONNECTOR
- POSITIVELY PRESSURIZED DUCT OUT OF THE PLANE
- POSITIVELY PRESSURIZED DUCT INTO THE PLANE
- NEGATIVELY PRESSURIZED DUCT OUT OF THE PLANE
- NEGATIVELY PRESSURIZED DUCT INTO THE PLANE
- SQUARE ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- AAD — AUTOMATIC AIR DAMPER
- TYPE / CFM / NECK SIZE / (TYPICAL OF) — DIFFUSER DESIGNATION
- UNIT / GPM/GPM — COOLING / HEATING — UNIT WITH HEATING AND COOLING
- UNIT / MAX. CFM — UNIT WITH AIR FLOW
- UNIT / GPM — UNIT WITH HEATING OR COOLING
- UNIT — GENERAL EQUIPMENT DESIGNATION
- (#) — KEYNOTE
- FIRE DAMPER
- VIEW / SHEET — ENLARGED PLAN & DETAIL CALL OUT
- VOLUME DAMPER

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO FLORIDA ENERGY CODE, 2014 ED., FLORIDA BUILDING CODE, 2014 ED. AND OSHA.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO DUCTWORK FABRICATION OR ANY OTHER MECHANICAL WORK. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING, DUCTWORK, AND PADS WITH OTHER CONTRACTORS. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS, AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER CONTRACTS.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL HVAC PENETRATIONS (PIPING, DUCTWORK, ETC) IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND WHERE SHOWN OR SPECIFIED.
4. ITEMS OF SPECIFIC MANUFACTURER'S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVES DIRECTIONS.
5. MECHANICAL CONTRACTOR TO INSTALL ALL NECESSARY STIFFENERS, BRACES, STRUTS, ETC, WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE, AND DURABLE SYSTEM.
6. DIMENSIONS SHOWN "AFF" INDICATE THE ACTUAL CLEAR DIMENSIONS FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR ELEVATION; UNLESS INDICATED OTHERWISE.
7. SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.
8. WELD ALL STEEL ANGLE JOINTS UNLESS OTHERWISE SHOWN.
9. PROVIDE NECESSARY BY-PASSES AND BALANCING MEANS AS REQUIRED TO ASSURE PROPER SYSTEM OPERATION.
10. ALL DUCT DIMENSIONS SHOWN ARE "SIDE SEEN" BY "SIDE NOT SEEN" AND ARE THE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
11. PROVIDE ACCESS DOORS AND CLEARANCES FOR EASY ACCESS TO ALL FIRE DAMPERS, CONTROL DAMPERS, LOUVERS, FILTERS, COILS, AND FANS.
12. BRANCH DUCTS TO REGISTER SHALL BE THE SAME SIZE AS REGISTER UNLESS INDICATED OTHERWISE.
13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, FOR PRECISE LOCATION OF DIFFUSERS AND REGISTERS.
14. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH TAKE-OFFS AND WHERE SHOWN.
15. PROVIDE ALL CONTROL AND INTERLOCK WIRING REQUIRED OR SPECIFIED THAT IS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR.
16. COORDINATE WITH ELECTRICAL CONTRACTOR AND FIRE PROTECTION CONTRACTOR REGARDING THE RESPONSIBILITIES FOR SUPPLYING, INSTALLING AND WIRING OF HVAC-RELATED DISCONNECT SWITCHES, STARTERS, SAFETY INTERLOCKS, EMERGENCY SHUTDOWN AND WIRING.
17. WORK ON M-SERIES DRAWINGS IS BY THE MECHANICAL CONTRACTOR (MC) UNLESS OTHERWISE NOTED.
18. VERIFY ALL LOCATIONS, DIMENSIONS, EQUIPMENT ARRANGEMENTS, CLEARANCES AND ELECTRICAL CHARACTERISTICS IN THE FIELD PRIOR TO BID. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
19. PRIOR TO CUTTING THROUGH FLOORS AND WALLS THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS, AND OR COLUMNS. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY DIRECTED TO DO SO.
20. THE MECHANICAL CONTRACTOR SHALL REMOVE DUCTWORK BACK TO A POINT WHICH WILL ALLOW THE INSTALLATION OF SUPPORT STEEL THAT IS REQUIRED / RELATED TO THE HVAC EQUIPMENT (IE RTU INSTALLATION). THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IN THE LOCATIONS WHICH WILL REQUIRE MECHANICAL SUPPORT STEEL.
21. ALL EXISTING TO REMAIN DIFFUSERS AND DUCT SYSTEMS TO BE REBALANCED TO CFM INDICATED
22. PATCH AND SEAL DUCT WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.
23. CAP AND SEAL PIPING WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.

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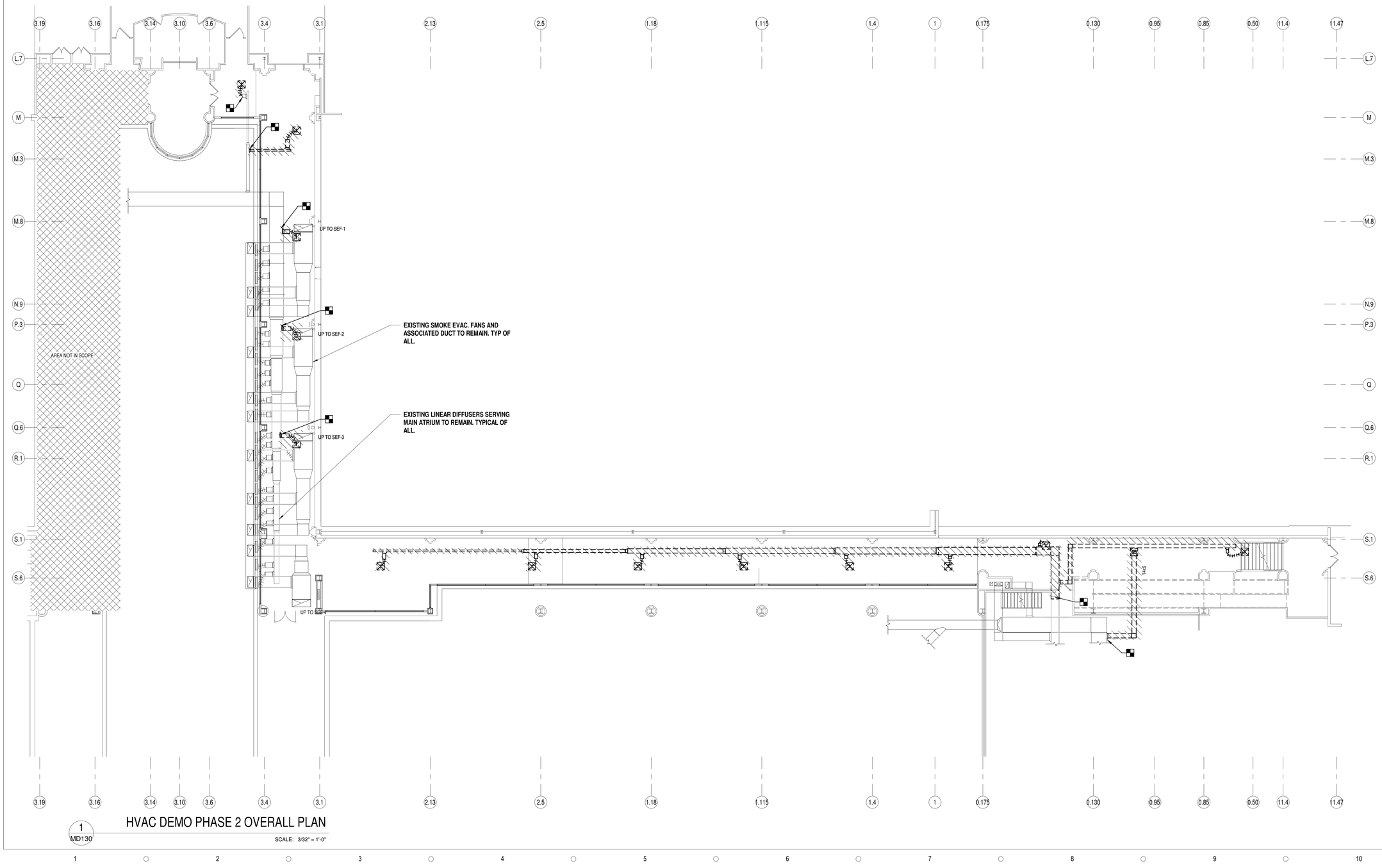
BID DOCUMENTS

DATE	SUBMISSION/REVISION	NO.

LEGEND, ABBREVIATIONS AND GENERAL NOTES

SCALE:	As indicated
DRAWN BY:	P. ROWAN
CHECK BY:	M. MCQUINN
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

M100



1 MD130 HVAC DEMO PHASE 2 OVERALL PLAN

SCALE: 3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

1. COORDINATE DEMOLITION WITH OTHER CONTRACTORS.
2. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH OCCUPIED BUILDING AREAS. SERVICE TO OTHER PARTS OF BUILDING SHALL REMAIN ACTIVE.
3. DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
4. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER, PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS AND PARTITIONS TO REMAIN.
5. EXCEPT WHERE NOTED OTHERWISE, REMOVE DEMOLISHED MATERIALS FROM SITE. DO NOT DISPOSE OF ANY MATERIAL ON SITE.
6. REMOVE DEMOLISHED MATERIAL FROM SITE AS WORK PROGRESSES. UPON COMPLETION OF WORK LEAVE AREAS IN CLEAN CONDITION.
7. COMPLETELY REMOVE ALL PIPING, DUCTWORK, HANGERS, ETC..
8. PROVIDE REINSULATION TO EXISTING DISTRIBUTION AND SERVICES SCHEDULED TO REMAIN IN USE.
9. DEMOLITION SHALL INCLUDE REMOVAL OF ALL STRAPS, HANGERS, CLAMPS, CHANNEL, AND OTHER DEVICES USED FOR SUPPORTING EQUIPMENT.
10. DRAIN, VENT, OR DISCHARGE MECHANICAL SYSTEMS PRIOR TO DISASSEMBLY.
11. IN MECHANICAL SYSTEMS BEING REMOVED, BLANK OFF, PLUG, OR CAP ALL BRANCH LINES (DUCTWORK OR PIPING) SCHEDULED FOR DEMOLITION WHERE THEY TIE INTO MAIN LINES TO REMAIN.
12. DEMOLITION INCLUDES REMOVAL OF EQUIPMENT, SELECTED DUCTWORK, PIPING, ECT... THE DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS TO BE REMOVED. IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO REMOVE ALL ASSOCIATED EQUIPMENT AND MATERIALS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE REUSED, TO PRODUCE A CLEAN AND WORKABLE SYSTEM.
13. REMOVE ALL OBSOLETE, FREE HANGING AND OPEN OR DEAD ENDED AIR, GLYCOL PIPING OR DUCT.
14. THE MECHANICAL DRAWINGS ARE DIAGRAMMATICAL. IT IS NOT POSSIBLE OR THE INTENT TO SHOW ALL PIECES OF THE SYSTEMS BEING REMOVED AND/OR INSTALLED UNDER THE CONTRACT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A COMPLETE, RELIABLE AND WORKING SYSTEM. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO DEMOLISH ALL MATERIALS ASSOCIATED TO REMOVALS TO PROVIDE A "LIKE NEW" APPEARANCE WITHIN THE SPACES (IE NO HANGARS, TUBING ETC. ABANDONED IN PLACE UNLESS DIRECTED TO DO SO).

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HVAC DEMOLITION PLAN

SCALE:	3/32" = 1'-0"
DRAWN BY:	P. ROWAN
CHECK BY:	M. MCQUINN
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

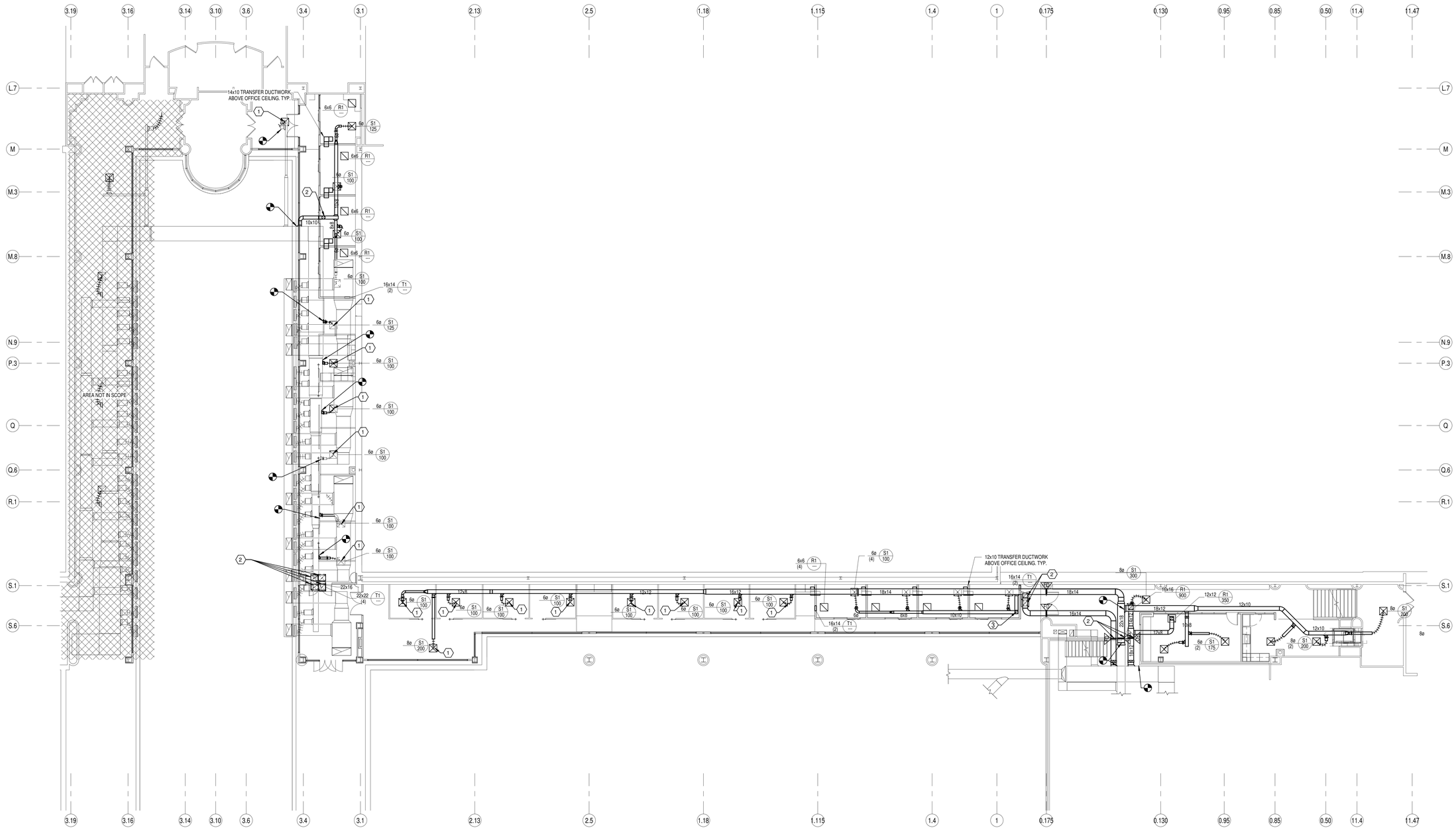
MD130

GENERAL NOTES:

1. REFER TO M-100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR SHALL COORDINATE DUCT ROUTING WITH STRUCTURAL MEMBERS.
3. COORDINATE DESTRUCTIVE DEMOLITION, IF REQUIRED, WITH OWNER.
4. FOR ALL DUCTWORK TURNS, PROVIDE RADIUS ELBOWS. IF IMPEDED BY SPACE CONSTRAINTS, MILTERED ELBOWS WITH TURNING VANES MAY BE USED.
5. CONTRACTOR SHALL OPERATE EXISTING FIRE DAMPERS SHOWN AND REPLACE FUSIBLE LINKS.
6. CONTRACTOR SHALL REBALANCE ALL EXISTINGS SUPPLY DIFFUSERS TO CFM VALUES INDICATED.

KEY NOTES:

1. PROVIDE NEW FIRE DAMPER SIMILAR TO RUSKIN "FDR25". SEE M-501 FOR INSTALLATION DETAIL.
2. PROVIDE NEW FIRE DAMPER SIMILAR TO RUSKIN "DFD35" OR EQUAL. SEE M-501 FOR INSTALLATION DETAIL.
3. PENETRATE RATED LID WITH FIRE DAMPER SIMILAR TO RUSKIN "DFD35" OR EQUAL. DUCTWORK TO BE ROUTED BETWEEN RATED LID AND OFFICE CEILING. SEE M-501 FOR DAMPER INSTALLATION DETAIL.



HVAC NEW WORK PLAN PHASE 2 OVERALL PLAN

1 / M130

SCALE: 3/32" = 1'-0"

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HVAC NEW WORK PLAN

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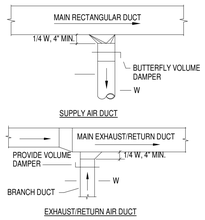
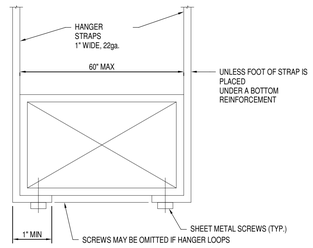


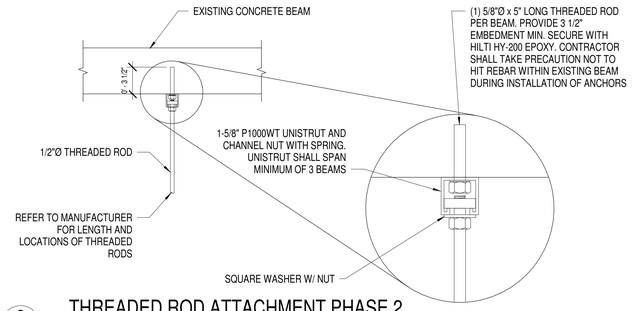
1 M501 BRANCH CONNECTION DETAIL PHASE 2

SCALE: 12" = 1'-0"



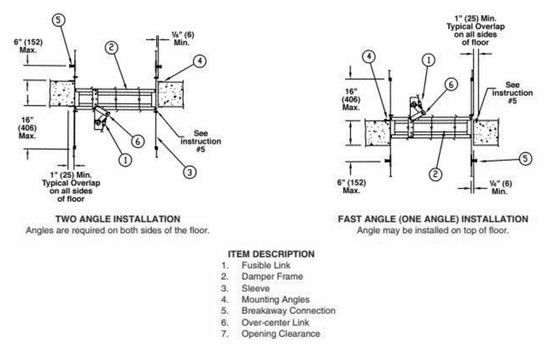
2 M501 RIGID DUCT SUPPORT DETAIL PHASE 2

SCALE: 12" = 1'-0"



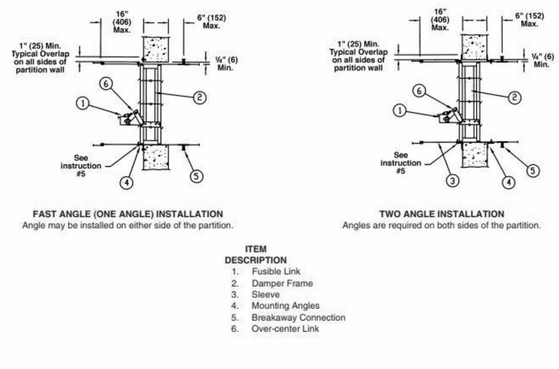
3 M501 THREADED ROD ATTACHMENT PHASE 2

SCALE: 1 1/2" = 1'-0"



6 M501 HORIZONTAL FIRE DAMPER INSTALLATION

SCALE: 12" = 1'-0"



7 M501 VERTICAL FIRE DAMPER INSTALLATION

SCALE: 12" = 1'-0"

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DETAIL SHEET

SCALE:	As indicated
DRAWN BY:	P. ROWAN
CHECK BY:	M. MCQUINN
DATE:	05/16/2019
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M501

DUCT CONSTRUCTION SCHEDULE

SERVICE	SMACNA PRESSURE CLASS	MATERIAL	ALLOWABLE SEAMS	SEALING REQUIREMENTS	INSULATION	NOTES
SUPPLY AIR DUCTS						
ALL EXPOSED SUPPLY AIR DUCTWORK	+ 2"	DOUBLEWALL RECTANGULAR COMPLETE WITH PERFORATED INNER LINER AND MYLAR FILM SEPERATING INSULATION FROM AIR STREAM	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	1" THICK INTERNALLY LINED	(1)(2)
ALL CONCEALED SUPPLY AIR DUCTWORK	+ 2"	SINGLE WALL SHEET METAL	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP	(1)(2)
RETURN AIR DUCTS						
ALL EXPOSED RETURN AIR DUCTWORK	- 2"	DOUBLEWALL RECTANGULAR COMPLETE WITH PERFORATED INNER LINER AND MYLAR FILM SEPERATING INSULATION FROM AIR STREAM	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	1" THICK INTERNALLY LINED	(1)(2)
ALL OTHER RETURN AIR DUCTWORK	-2"	SINGLE WALL SHEET METAL	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP	(1)(2)

NOTES:
(1) ALL DUCTWORK IS TO BE FABRICATED, SUPPORTED AND INSTALLED PER SMACNA STANDARDS AND FLORIDA MECHANICAL CODE REQUIREMENTS.
(2) DUCTWORK TO BE G90 GALVANIZED SHEET METAL.

DIFFUSER/RETURN GRILLE SCHEDULE

MARK / LEGEND	TYPE	MFG.	MODEL	NOTES
NECK SIZE → 10Ø, S1 → MARK; QUANTITY TYP → (2), 200 → CFM	ROUND NECK, SQUARE CEILING SUPPLY DIFFUSER	PRICE	ASCD	2,3,4,5,6
NECK SIZE → 12x12, R1 → MARK; QUANTITY TYP → (2), 200 → CFM	CEILING OR SIDEWALL RETURN AIR GRILLE	PRICE	635	1,2,4,5,7
NECK SIZE → 12x12, T1 → MARK; QUANTITY TYP → (2), 200 → CFM	CEILING OR SIDEWALL TRANSFER AIR GRILLE	PRICE	635	1,2,4,5,7

NOTES:
1. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
2. PROVIDE 24x24 FULLY LOUVERED FACE LAYIN MODULE WHERE LOCATED IN LAYIN CEILING OR SUSPENDED FROM DUCTWORK.
3. FACTORY INSULATED BACKS ON ALL CEILING DIFFUSERS MUST BE PROVIDED.
4. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
5. COORDINATE FINISH WITH ARCHITECTURAL.
6. WHERE DIFFUSER BALANCING DAMPER IS INACCESSIBLE, PROVIDE A CONCEALED REMOTE OPERATOR SIMILAR TO YOUNG REGULATOR 270-301 BESIDE DIFFUSER/GRILLE.
7. NECK SIZE IS 22x22 UNLESS NOTED OTHERWISE ON PLANS.

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SCHEDULES

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DRAWN BY:	P. ROWAN
CHECK BY:	M. MCQUINN
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M601

SYMBOLS LEGEND

- DUPLEX RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED
- QUAD RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED
- CTR — COUNTERTOP RECEPTACLE
- GROUND FAULT CIRCUIT INTERRUPTER TYPE, MOUNT 48" AFF UNLESS OTHERWISE NOTED
- SPLIT WIRE
- SINGLE POLE TOGGLE SWITCH
- CIRCUIT BREAKER
- GROUND
- COMMUNICATIONS OUTLET WITH 1 DATA & 1 PHONE JACK, MOUNT 18"AFF UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE ORANGE KEYSTONE FOR DATA AND WHITE KEYSTONE FOR PHONE.
- WAP — WIRELESS ACCESS POINT WITH 1 DATA JACK, MOUNT 18"AFF UNLESS OTHERWISE NOTED. PROVIDE PURPLE KEYSTONE.
- J — JUNCTION BOX
- FUSED DISCONNECT SWITCH
- PANELBOARD
- XXX — BRANCH CIRCUIT HOME RUN WITH CIRCUIT NUMBER SEE PANEL SCHEDULES FOR DETAILS
- PP — LIGHTING POWER PACK
- PL — PLUG LOAD CONTROLLER
- A — 1'X4' LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE
- A — 2'X2' LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE
- A — 1'X4' NIGHT LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST AND CIRCUIT AHEAD OF ASSOCIATED SWITCHING
- A — 2'X2' LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE CONNECTED TO EMERGENCY POWER SUPPLY, SEE PANEL SCHEDULE
- (OS) — CEILING MOUNTED OCCUPANCY SENSOR
- OR A OR A OR A — EXIT LUMINAIRE, SHADED AREA DENOTES FACE, LETTER DENOTES TYPE
- CR — PROXIMITY CARD READER

CODE AUTHORITY

2017 FLORIDA BUILDING CODE, 6TH EDITION
2014 NATIONAL ELECTRIC CODE (NFPA 70)

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND NATIONAL ELECTRICAL CODES. SEE CODE AUTHORITY SECTION OF THIS SHEET FOR FURTHER DETAIL.
2. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
3. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
4. COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS.
5. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO ORIGINAL OR AS DETERMINED BY THE OWNER.
6. THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
7. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
8. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
9. ALL RACEWAYS SHALL BE RUN IN NEAT AND WORKMAN-LIKE MANNER AND SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH CODES LISTED ON THIS SHEET. NO PVC SHALL BE ALLOWED ANYWHERE EXCEPT UNDERGROUND OR IN SLAB. PVC CONDUIT SHALL BE USED UNDERGROUND. RIGID STEEL ELBOWS SHALL BE USED ON ALL CONDUIT SIZES AT LOCATIONS PENETRATING CONCRETE FLOOR SLAB OR NOTED ELSEWHERE ON CONSTRUCTION DOCUMENTS. MINIMUM DEPTH OF UNDERGROUND CONDUIT IS 24" TO TOP OF CONDUIT.
10. ALL CONDUIT AND WIRING SCHEDULES SHALL BE VERIFIED BEFORE INSTALLATION.
11. ALL RACEWAY RUNS, PRIOR TO TERMINATION AT BRANCH PANEL, SHALL BE CAPPED DURING THE COURSE OF CONSTRUCTION BUT NOT UNTIL WIRES ARE PULLED IN AND COVERS ARE IN PLACE. NO CONDUCTORS SHALL BE PULLED INTO RACEWAYS UNTIL CONSTRUCTION WORK, WHICH MIGHT DAMAGE THE RACEWAYS, HAS BEEN COMPLETED.
12. CONTRACTOR TO PROVIDE NYLON PULL CORD IN ALL EMPTY RACEWAYS.
13. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL BE AS DIRECTED BY THE ARCHITECT
14. THE ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. COORDINATE EXACT LOCATIONS AND DETAILS OF ELECTRICAL EQUIPMENT, CONDUITS, ETC, WITH THE OWNER.
15. CONSTRUCTION DOCUMENTS REPRESENT DESIGN INTENT. IT IS NOT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO IDENTIFY EACH AND EVERY DETAIL OF THE ELECTRICAL CONSTRUCTION. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
16. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, LOCATIONS, AND DIMENSIONS SHOWN ON DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
17. THE ENGINEER HAS MADE EVERY EFFORT TO PROPERLY ADDRESS ALL RELATED TRADES AND IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL CONTRACTOR (AS PART OF THEIR BASE BID) TO THOROUGHLY REVIEW ALL DESIGN DOCUMENTS BEFORE WORK IS TO BEGIN. IN CASE OF A CONFLICT, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO COORDINATE ANY DISCREPANCY.
18. ALL ELEVATIONS NOTED ON THE CONTRACT DRAWING ARE RELATIVE TO THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
19. REPAIR AND REFINISH ALL AREAS AFFECTED BY RENOVATION WORK BACK TO THEIR ORIGINAL CONDITION AS NEW AND IN AN ACCEPTABLE MANNER TO OWNER / ARCHITECT, WITH NO ADDITIONAL COST TO OWNER.
20. IF ASBESTOS IS ENCOUNTERED STOP WORK IN THAT AREA AND IMMEDIATELY CONTACT THE OWNER.
21. ALL PROJECT SUBMITTALS SHALL BE SUBMITTED AND RETURNED MARKED REVIEWED OR REVIEWED AS NOTED PRIOR TO ORDERING/ INSTALLATION OF ANY PRODUCT / SERVICE.
22. ALL MATERIALS AND ASSEMBLIES SHALL BE NEW AND FREE OF DEFECTS, UNLESS OTHERWISE NOTED AND SHALL BEAR THE UNDERWRITER'S LABORATORIES (U.L.) LABEL OR BE LABELED OR LISTED WITH AN APPROVED NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY.
23. CONTRACTOR SHALL ASSUME THAT ALL ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SHOWN ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS 'EXISTING'.
24. CONTRACTOR SHALL REVIEW AND COORDINATE THE ELECTRICAL CONSTRUCTION WITH OTHER TRADES, EQUIPMENT SUPPLIERS AND THE OWNER.
25. ALL WIRE SHALL BE STRANDED COPPER CONDUCTORS, 600V RATED, TYPE THHN/THWN, UNLESS OTHERWISE NOTED. ALL INTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT), RIGID METAL CONDUIT (RMC) OR FLEXIBLE METAL CONDUIT (FMT), UNLESS OTHERWISE NOTED.
26. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL WIRING WITH THE SOURCE AND CIRCUIT AT ALL ELECTRICAL EQUIPMENT, PULL AND JUNCTION BOXES AND ELECTRICAL TERMINATIONS PROVIDED OR ASSOCIATED WITH THIS CONSTRUCTION.
27. WHERE CONDUITS PENETRATE FIRE RATED WALLS OR FLOORS, PROVIDE FIRE STOPPING THAT IS AN UNDERWRITER'S LABORATORIES LISTED SYSTEM AND CONFORMS TO THE FLORIDA BUILDING CODE.
28. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED SURFACES AND AREAS WHERE EQUIPMENT WAS REMOVED OR MODIFIED, TO MATCH EXISTING CONDITIONS.
29. ALL NEW CONDUITS TO BE CONCEALED IN WALL WHERE POSSIBLE. ALL CONDUITS IN CEILING TO BE PAINTED TO MATCH SURROUNDING MATERIAL.
30. ALL BRANCH CIRCUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
31. THE PLANS REFLECT SYSTEM VOLTAGE DROP AS PER 2017 FBC ENERGY CONSERVATION FBC-EC C405.6.3 - SIXTH EDITION. THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5 PERCENT VOLTAGE DROP TOTAL AT DESIGN LOAD.

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
ACCU	AIR COOLED CONDENSING UNIT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AU	AT UNIT
AWG	AMERICAN WIRE GUAGE
BFG	BELOW FINISHED GRADE
COP	CLOCK DISTRIBUTION PANEL
BLDG	BUILDING
BMS/EMS	BUILDING/ENERGY MANAGEMENT SYSTEM
BRKR	BREAKER
3/C	CONDUCTOR, NUMBER OF (3)
C, CND	CONDUIT
CB, CKT BRKR CLF	CIRCUIT BREAKER CURRENT LIMITING FUSE
CH	CHILLER
CKT	CIRCUIT
CLG	CEILING
CLL	CONTRACT LIMIT LINE
CT	CURRENT TRANSFORMER
CTB	CLOCK TERMINAL BOX
Cu	COPPER
CW	COLD WATER
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPM	DISTRIBUTION PANEL MAIN
DWG	DRAWING
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EDH	ELECTRIC DUCT HTR.
EF	EXHAUST FAN
ELEC	ELECTRICAL)
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRIC METALLIC TUBING
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXH FN	EXHAUST FAN
EX, EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FD/SD	FIRE DAMPER/SMOKE DAMPER
FLR	FLOOR
FLUOR	FLUORESCENT
FPB	FAN POWER BOX
FU	FUSE
FXTR	FIXTURE
G, GND	GROUND
GAL, GPH	GALLONS/GALLONS PER HOUR
GEC	GROUND ELECTRODE CONDUCTOR
GF, GFCI	GROUND FAULT INTERRUPTER TYPE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE (ILLUMINATION)
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IEWH	INSTANT ELECTRIC WATER HEATER
INCAND	INCANDESCENT
JB, J BOX	JUNCTION BOX
kA	KILO AMP
KCMIL	THOUSAND CIRCULAR MILS LIGHT
kV	KILO VOLT
kVA	KILO VOLT AMP
kWHD	KILO WATT-HOUR DEMAND METER
LUM	LUMINAIRE (LIGHT FIXTURE)
LP	LIGHT PANEL
MAX	MAXIMUM
MBJ	MAIN BONDING JUMPER
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MH =	MOUNTING HEIGHT OF LUMINARE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON FUSED
NL	NIGHT LIGHT
NO	NORMALLY OPEN
OL	OVERLOAD
OR	OVERRIDE
PB	PUSH BUTTON
PF	POWER FEEDER
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PUV	PANEL-UNIT VENTILATOR
PWR	POWER
RECEPT	RECEPTACLE
REM	REMARKS
RENOV	RENOVATION
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMBOL
TBD	TO BE DETERMINED
TEL	TELEPHONE
THRU	THROUGH
TR	TAMPER RESISTANT
TYP	TYPICAL
UV	UNIT VENTILATOR
UON	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
W	WATT OR WIRE
WAP	WIRELESS ACCESS POINT
W/	WITH
WHTR	WATER-HEATER
WP	WEATHER PROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

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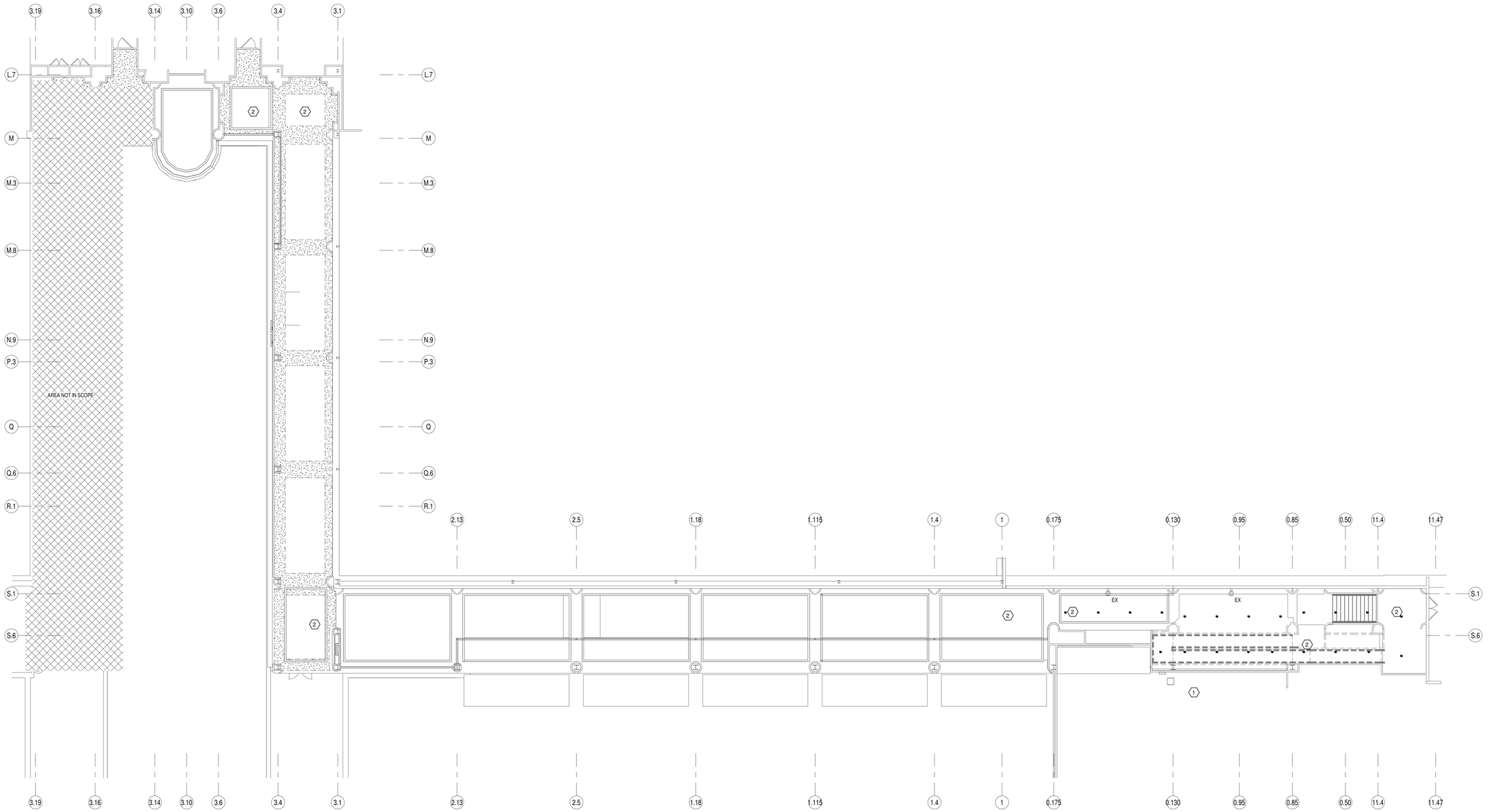
DATE	SUBMISSION/REVISION	NO.

LEGEND, ABBREVIATIONS, & NOTES

SCALE:	12" = 1'-0"
DRAWN BY:	W. O'CONNOR
CHECK BY:	X. CAO
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

E100



1 ED111 DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. REFER TO E-100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEY NOTES:

1. ELECTRICAL RECEPTACLES, EQUIPMENT, PANELS, ETC. IN THIS SPACE SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. DEMOLISH ALL LIGHT FIXTURES, ELECTRICAL RECEPTACLES, SWITCHES, ETC. IN THIS SPACE UNLESS OTHERWISE NOTED.

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DRAWN BY:	W. O'CONNOR
CHECK BY:	X. CAO
DATE:	05/16/2019
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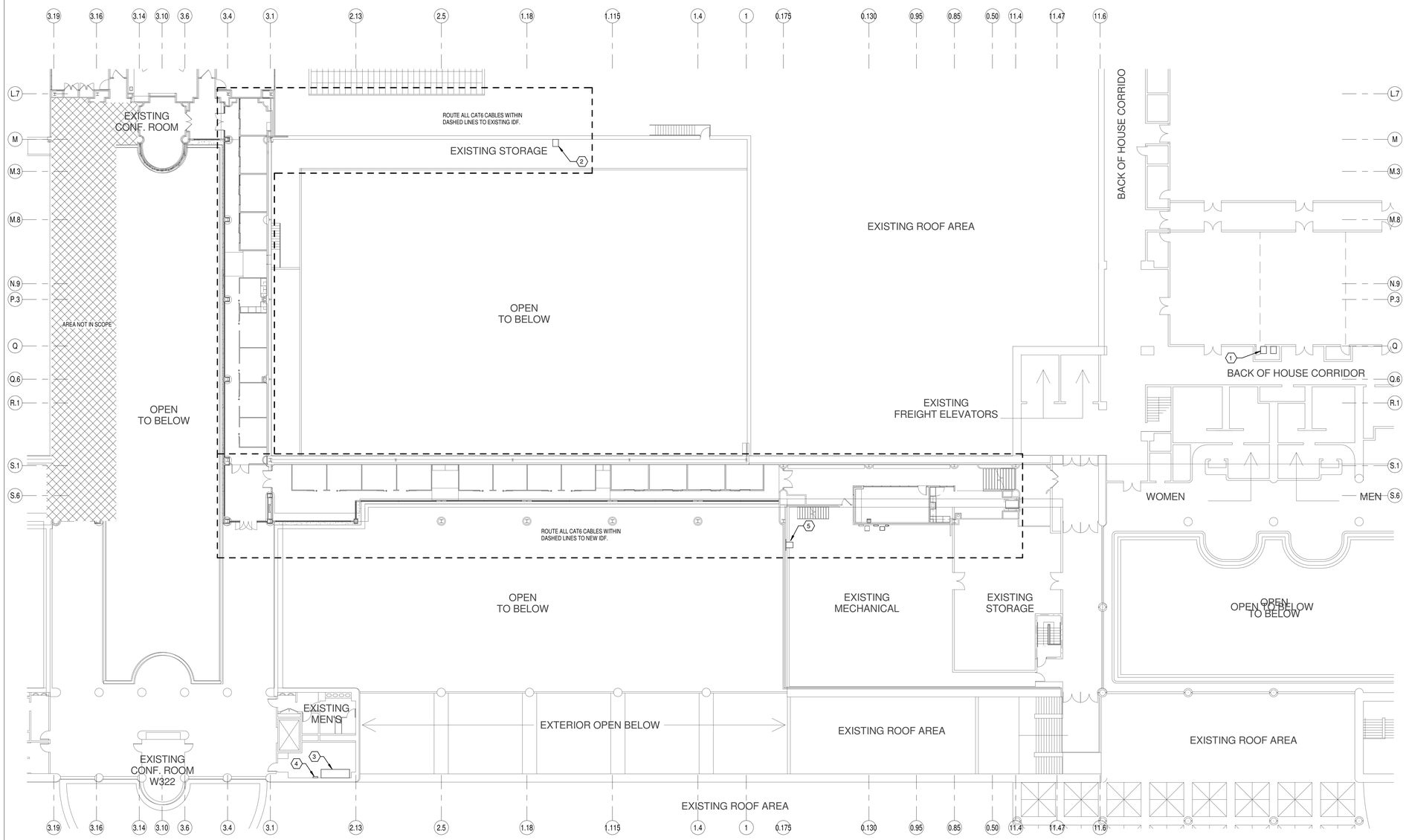
ED111



1 E101 OVERALL FLOOR PLAN

SCALE: 1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO E100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEY NOTES:

1. EXISTING TELECOM RACK IN IDF CLOSET. VERIFY EXACT LOCATION PRIOR TO PULLING ANY FIBER.
2. EXISTING TELECOM RACK.
3. EXISTING SWITCHBOARD "MD" ON FIRST FLOOR BELOW. FIELD VERIFY EXACT LOCATION.
4. EXISTING PANEL LH2.
5. LOCATION OF NEW IDF. REFER TO E111 FOR ENLARGED PLAN.

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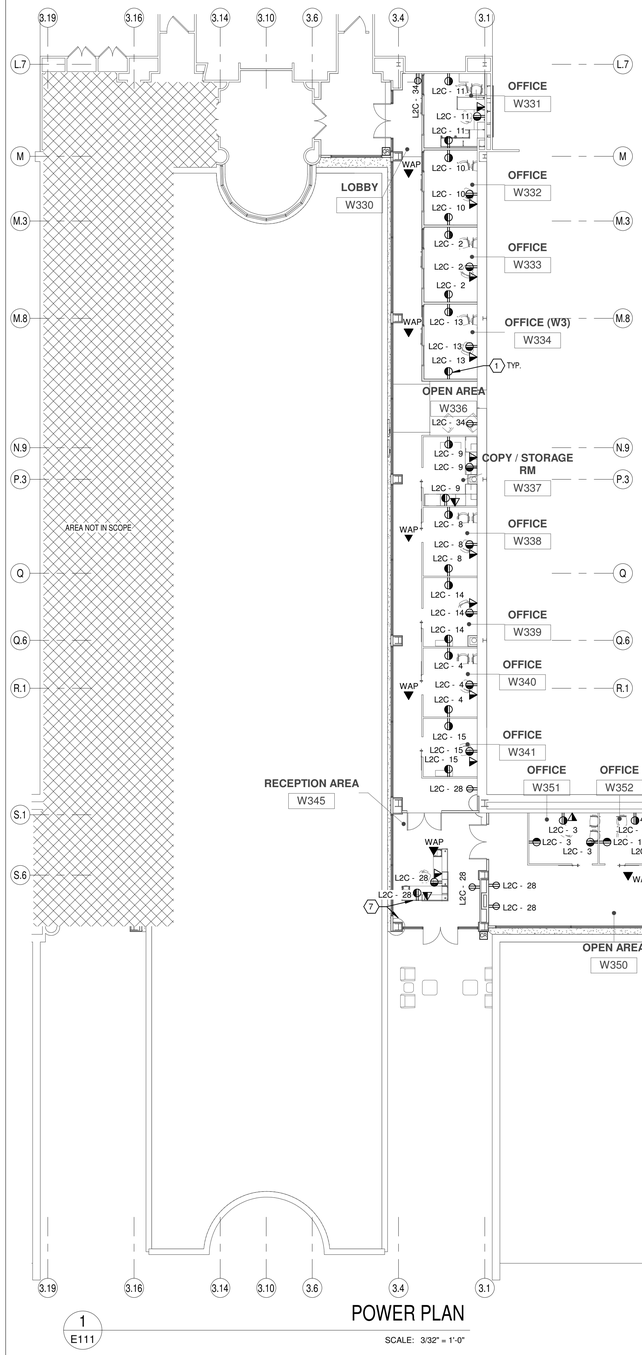
OVERALL FLOOR PLAN

SCALE:	1/16" = 1'-0"
DRAWN BY:	W. O'CONNOR
CHECK BY:	X. CAO
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

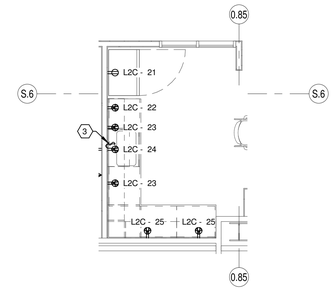
E101



1 E111

POWER PLAN

SCALE: 3/32" = 1'-0"



POWER PLAN PHASE 2 - PARTIAL BREAK ROOM

2 E111

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO E100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ANY RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE MUST BE MARKED WITH APPROPRIATE SYMBOL LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION AS STATED IN 2014 NEC ARTICLE 406.3(E).

KEY NOTES:

1. ALL SPLIT WIRED RECEPTACLES SHALL BE CONTROLLED THROUGH PLUG LOAD CONTROL POWER PACK FOR AUTOMATIC CONTROL AS REQUIRED PER ASHRAE STANDARD 90.1.
2. PROVIDE A 120V/1PH ELECTRICAL CONNECTION TO POWERED LIFT VIA JUNCTION BOX ORIGINATING FROM A CIRCUIT BREAKER WITH LOCKABLE PROVISIONS IN COMPLIANCE WITH NEC 422.31(B). COORDINATE REQUIREMENTS FOR LIFT WITH MANUFACTURER.
3. PROVIDE RECEPTACLE UNDER SINK AND SWITCH ABOVE COUNTER FOR GARBAGE DISPOSAL.
4. PROVIDE NEW 48"H x 48"W x 3/4"D PLYWOOD BACKBOARD.
5. PROVIDE NEW CHATSWORTH PRODUCTS INC. CUBE-IT SERIES 24"W x 30"D x 48"H, BLACK, STEEL TELECOMMUNICATION ENCLOSURE CABINET WITH PLEXIGLASS DOOR AND 19" EIA MOUNTING RAILS PART NUMBER 12419-748. PROVIDE A 12-FIBER ARMORED, PLENUM RATED, SINGLE MODE FIBER OPTIC CABLE BACK TO IDF ROOM INDICATED BY NOTE 1 ON SHEET E101.1 OVERALL FLOOR PLAN.
6. PROVIDE NEW SERVICE DISCONNECT, TRANSFORMER, AND PANELBOARD. REFER TO SINGLE-LINE DIAGRAM ON SHEET E-601 FOR DETAILS.
7. ROUTE POWER AND DATA FOR RECEPTION DESK FROM COLUMN TO DESK.
8. PROVIDE RECEPTACLE FOR IDF. COORDINATE MOUNTING LOCATION WITH IDF AND OWNER REQUIREMENTS.

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POWER PLAN

SCALE:	As indicated
DRAWN BY:	W. O'CONNOR
CHECK BY:	X. CAO
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

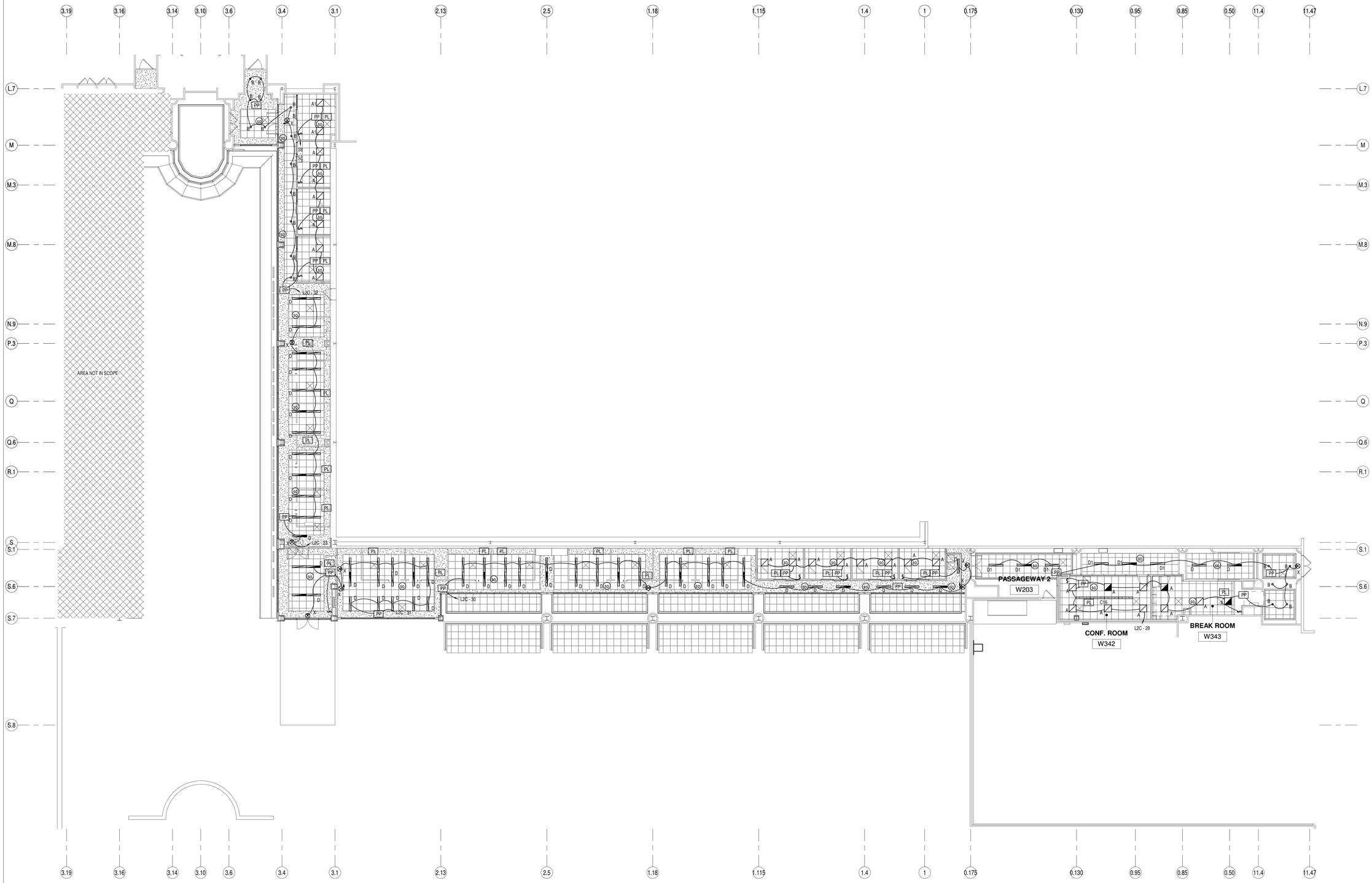
E111

GENERAL NOTES:

1. REFER TO E100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. HALF-SHADED FIXTURE SHALL DENOTE EMERGENCY FIXTURE WITH BATTERY BACKUP. EMERGENCY FIXTURES SHALL BE CIRCUITED AHEAD OF ANY SWITCHING.
3. SEE MASTER LUMINAIRE SCHEDULE ON SHEET E-601.2 FOR LUMINAIRE SPECIFICATIONS.

KEY NOTES:

(1) PROVIDE 2#6, 1#8G IN 3/4" CONDUIT BACK TO EXISTING CIRCUIT IN PANEL LH2 TO BE REUSED. SEE SHEET E-101.2 FOR LOCATION OF PANELBOARD LH2.



1 E121 LIGHTING PLAN
SCALE: 3/32" = 1'-0"

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LIGHTING PLAN

SCALE:	3/32" = 1'-0"
DRAWN BY:	W. O'CONNOR
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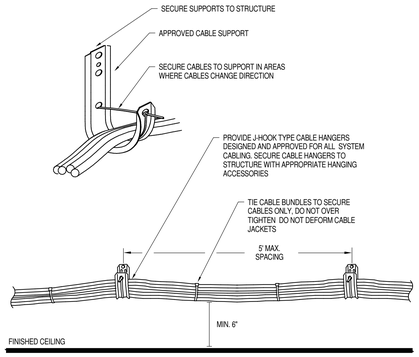
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

E121

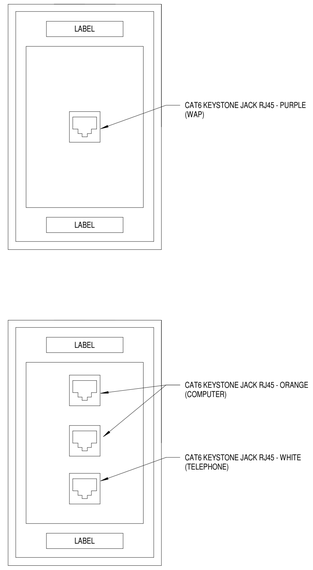


INSTALLATION NOTES:

1. LOCATE CABLE BUNDLES A MINIMUM OF 6 INCHES ABOVE REMOVABLE CEILINGS TO MAINTAIN CLEARANCE (ALONG WALLS WHERE POSSIBLE). LOCATE IN AREAS THAT ARE ACCESSIBLE.
2. USE 2 OR MORE CABLE HANGERS AT ALL TURNS TO MAINTAIN MANUFACTURER'S BEND RADIUS REQUIREMENTS.

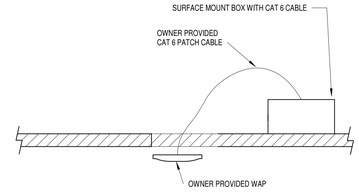
1 E501 — CABLE SUPPORT DETAIL

SCALE: NO SCALE



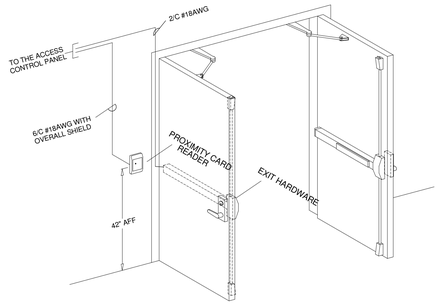
2 E501 — NETWORK OUTLET DETAILS

SCALE: 12" = 1'-0"



3 E501 — WIRELESS ACCESS POINT (WAP) INSTALLATION DETAIL

SCALE: 12" = 1'-0"



4 E501 — DOUBLE DOOR ACCESS CONTROL DETAIL

SCALE: 12" = 1'-0"

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DETAIL SHEET

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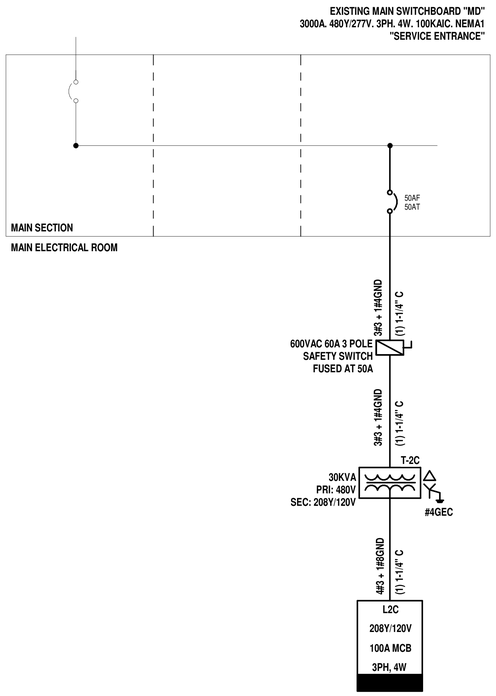
PROJECT NUMBER:	15012-0037

E501



1 E601

ONE-LINE DIAGRAM

SCALE: 12" = 1'-0"

PANEL NAME: L2C

LOCATION:
SUPPLY FROM: T-2C
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000
MAINS TYPE: MCB
MAINS RATING: 100

CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A		B		C		CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
RECEPT - OFFICES 358 & 359	1-#10, 1-#10, 1-#10	3/4"	20 A	1	1	1080 VA	540 VA					2	1	20 A	3/4"	1-#8, 1-#8, 1-#8	RECEPT - OFFICE 333
RECEPT - RECEPTION & OFFICE 351	1-#10, 1-#10, 1-#10	3/4"	20 A	1	3			540 VA	540 VA			4	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPT - OFFICE 340
RECEPT - OFFICE 353	1-#10, 1-#10, 1-#10	3/4"	20 A	1	5					540 VA	1260 VA	6	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPT - CORRIDOR & OFFICES 364 & 365
RECEPT - OPEN AREA & OFFICE 356	1-#10, 1-#10, 1-#10	3/4"	20 A	1	7	720 VA	540 VA					8	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPT - OFFICE 338
RECEPT - OPEN AREA & OFFICE 337	1-#10, 1-#10, 1-#10	3/4"	20 A	1	9			540 VA	540 VA			10	1	20 A	3/4"	1-#8, 1-#8, 1-#8	RECEPT - OFFICE 332
RECEPT - OFFICE 331	1-#8, 1-#8, 1-#8	3/4"	20 A	1	11					540 VA	1260 VA	12	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPT - OPEN AREA & OFFICES 362 & 363
RECEPT - OFFICE 334	1-#8, 1-#8, 1-#8	3/4"	20 A	1	13	540 VA	540 VA					14	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPT - OFFICE 339
RECEPT - OFFICE 341	1-#10, 1-#10, 1-#10	3/4"	20 A	1	15			540 VA	540 VA			16	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPT - OFFICE 352
RECEPT - OFFICE 354	1-#12, 1-#12, 1-#12	3/4"	20 A	1	17					540 VA	540 VA	18	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPT - OFFICE 357
RECEPT - CONFERENCE ROOM	1-#12, 1-#12, 1-#12	3/4"	20 A	1	19	720 VA	540 VA					20	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPT - CONFERENCE ROOM
REFRIGERATOR	1-#12, 1-#12, 1-#12	3/4"	20 A	1	21			180 VA	180 VA			22	1	20 A	3/4"	1-#12, 1-#12, 1-#12	DISHWASHER
RECEPT - BREAKROOM COUNTER	1-#12, 1-#12, 1-#12	3/4"	20 A	1	23					360 VA	180 VA	24	1	20 A	3/4"	1-#12, 1-#12, 1-#12	GARBAGE DISPOSAL
RECEPT - BREAKROOM COUNTER	1-#12, 1-#12, 1-#12	3/4"	20 A	1	25	360 VA	720 VA					26	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPT - BREAKROOM & PASSAGEWAY
LIFT	1-#10, 1-#10, 1-#10	3/4"	20 A	1	27			1900 VA	1080 VA			28	1	20 A	3/4"	1-#8, 1-#8, 1-#8	RECEPT - RECEPTION AREA
LIGHTING EAST CORRIDOR, BREAKROOM	1-#12, 1-#12, 1-#12	3/4"	20 A	1	29					932 VA	1055 VA	30	1	20 A	3/4"	1-#8, 1-#8, 1-#8	LIGHTING
LIGHTING	1-#12, 1-#12, 1-#12	3/4"	20 A	1	31	369 VA	669 VA					32	1	20 A	3/4"	1-#8, 1-#8, 1-#8	LIGHTING
LIGHTING	1-#10, 1-#10, 1-#10	3/4"	20 A	1	33			427 VA	360 VA			34	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPT CORRIDOR
RECEPTACLE	1-#12, 1-#12, 1-#12		20 A	1	35					360 VA	0 VA	36	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	37	0 VA	0 VA					38	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	39			0 VA	0 VA			40	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	41					0 VA	0 VA	42	1	20 A	--	--	SPARE
			Total Load:			7293 VA		7347 VA		7493 VA							
			Total Amps:			61 A		61 A		63 A							

NOTES:

ACCESS CONTROL SCHEDULE

DOOR NUMBER	DOOR LOCATION	CARD READER	QTY	EXIT HARWARE	QTY	NOTES
203	LOBBY ENTRANCE - NW	ALLEGION MTK15	1	9849-L-F-E996-03-FSE-CON-SNB-24VDC	1	DESIGN SPEC SHALL BE PARTS LISTED OR APPROVED EQUAL
330	LOBBY ENTRANCE - SW	ALLEGION MTK15	1	9849-L-F-E996-03-FSE-CON-SNB-24VDC	1	DESIGN SPEC SHALL BE PARTS LISTED OR APPROVED EQUAL
345B	RECEPTION ENTRANCE - NE	ALLEGION MTK15	1	9849-L-F-E996-03-FSE-CON-SNB-24VDC	1	DESIGN SPEC SHALL BE PARTS LISTED OR APPROVED EQUAL

GENERAL ACCESS CONTROL NOTE:

DOOR HARDWARE IS TO BE PROVIDED BY DOOR CONTRACTOR.
COORDINATE ALL WORK WITH GENERAL CONTRACTOR.

MASTER LUMINAIRE SCHEDULE

FIXTURE DESCRIPTION	MANUFACTURER AND MODEL NUMBER	VOLTS	MOUNTING	REMARKS
A	FOCAL POINT LLC FEQ2-22-AC-4500LH-35K-1C-UNV-LD1-G-WH OR APPROVED EQUAL.	UNV	CEILING GRID	
A1	FOCAL POINT LLC FEQ2-22-AC-5000LH-35K-1C-UNV-LD1-G-WH OR APPROVED EQUAL.	UNV	CEILING GRID	
B	FOCAL POINT LLC FLC3D-RO-1500L-120-LD1-TLC3-RO-1500L-35K-DNT-FL-CD-WP OR APPROVED EQUAL.	120	CEILING RECESSED	
C16	NULITE RP4B-03L35-UNV-D-2C-FRF-WH-16' OR APPROVED EQUAL.	UNV	SUSPENDED	
D	NULITE RG4-06L35-UNV-D-1C-FRF-4' OR APPROVED EQUAL.	UNV	CEILING	
D1	NULITE RG4-10L35-UNV-D-1C-FRF-4'-ASYM OR APPROVED EQUAL.	UNV	CEILING	
X	ISOLITE RL-EM-R-WW-SD OR APPROVED EQUAL.	UNV	CEILING	

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DATE	SUBMISSION/REVISION	NO.

SCHEDULES AND ONE-LINE DIAGRAM

SCALE:	12" = 1'-0"
DRAWN BY:	W. O'CONNOR
CHECK BY:	X. CAO
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

E601

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
XXX	CEILING MOUNTED MASS NOTIFICATION SPEAKER/STROBE (75 CANDELA UNLESS OTHERWISE DENOTED BY NUMBER NEXT TO UNIT)
F	MANUAL PULL STATION
FACP	FIRE ALARM CONTROL PANEL (EXISTING)
	END OF LINE RESISTOR
TSP	DENOTES TWISTED SHIELDED PAIR

CODE AUTHORITY

2017 FLORIDA FIRE PREVENTION CODE, 6TH EDITION
2017 FLORIDA BUILDING CODE, 6TH EDITION
2013 NATIONAL FIRE ALARM CODE (NFPA 72)
AMERICANS WITH DISABILITIES ACT (ADA)
2014 NATIONAL ELECTRIC CODE (NFPA 70)

FIRE ALARM SYSTEM NOTES

SYSTEM NOTES:

1.) FIRE ALARM SYSTEM EQUIPMENT, DEVICES, AND COMPONENTS SHALL BE PRODUCTS OF THE SAME MANUFACTURER. ALL EQUIPMENT CONSTRUCTED AND INSTALLED IN CONFORMANCE WITH THESE DOCUMENTS SHALL BE LISTED FOR THE PURPOSE FOR WHICH IT IS USED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NFPA 72.

2.) OPERATION OF AN AUTOMATIC FIRE PROTECTION SYSTEM SHALL CAUSE AN ALARM SIGNAL AT THE FIRE ALARM CONTROL PANEL.

3.) MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5' OF THE ENTRANCE TO EACH EXIT, SHALL BE MOUNTED SECURELY, AND THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE 48" +/- 6" ABOVE FINISHED FLOOR. OPERATIONS OF MANUAL FIRE ALARM BOX SHALL CAUSE AN ALARM SIGNAL AT THE FIRE ALARM CONTROL PANEL.

4.) VISUAL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.

5.) NOTIFICATION APPLIANCE CIRCUITS SHALL NOT EXCEED 75% OF POWER LOAD AVAILABLE FROM THE FIRE ALARM CONTROL PANEL OR POWER SUPPLY.

6.) CONDUIT AND RACEWAY INSTALLED IN VERTICAL POSITION SHALL BE PARALLEL WITH WALLS AND PERPENDICULAR WITH THE FLOOR AND CEILING. CONDUIT INSTALLED IN A HORIZONTAL POSITION SHALL BE PARALLEL WITH THE FLOOR AND CEILING AND PERPENDICULAR WITH THE WALLS.

7.) WIRING IN TERMINAL CABINETS, CONTROL PANELS, POWER SUPPLIES, AND BOXES SHALL BE LACED PARALLEL AND PERPENDICULAR TO THE MAJOR AXIS. CONDUCTORS SHALL BE PERMANENTLY MARKED AND TERMINATED ON SCREW TERMINALS.

8.) FIRE ALARM EQUIPMENT SHALL BE INSTALLED IN LOCATIONS WHERE CONDITIONS DO NOT EXCEED THE VOLTAGE, TEMPERATURE, AND HUMIDITY LIMITES SPECIFIED PER NFPA 72.

11.) FIRE ALARM DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THEIR ATTACHED CONDUCTORS AND RACEWAY PER NFPA 72.

12.) COORDINATE DEMOLITION WITH OTHER CONTRACTORS.

13.) ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE MOUNTED CENTERED IN TILE IN TWO DIRECTIONS WHERE APPLICABLE.

WIRE LEGEND

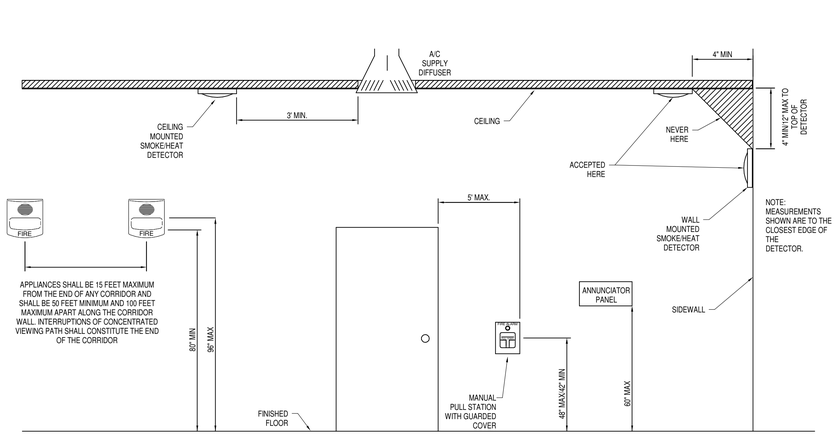
A = 2 COND #18 FPL - SIGNALING LINE CIRCUIT
B = 2 #14 THHN SOLID ORANGE/BROWN - NAC STROBES

* RESIZE CONDUCTORS AS NEEDED IN ORDER TO COMPLY WITH NEC VOLTAGE DROP REQUIREMENTS

CIRCUIT TYPE/STYLE LEGEND

ALL CIRCUITS ARE COPPER CONDUCTORS - 2013 NFPA 72 DESIGNATIONS

SIGNALING LINE CIRCUIT (SLC) = CLASS B
NOTIFICATION APPLIANCE CIRCUIT (NAC) = CLASS B



WALL MOUNTED FIRE ALARM DEVICE DETAIL

1 / FA100

SCALE: NO SCALE

SYSTEM OUTPUTS													
	CONTROL UNIT ANNUNCIATION				NOTIFICATION				REQUIRED FIRE SAFETY CONTROL FUNCTION				
SYSTEM INPUTS	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE ALL EVACUATION SIGNALS	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	CLOSE SMOKE/ FIRE DAMPERS IN RATED WALLS	FORCE EACH FAN CONTROL UNIT INTO FIRE MODE	RECALL ELEVATORS TO PRIMARY RECALL FLOOR	SIGNAL TO ACCESS CONTROL SYSTEM	
	A	B	C	D	E	F	G	H	I	J	K	L	
1 MANUAL FIRE ALARM PULL STATIONS	X	X			X	X	X		X	X	X	X	1
2 AC POWER FAILURE			X	X		X		X					2
3 LOW BATTERY			X	X		X		X					3
4 OPEN CIRCUIT			X	X		X		X					4
5 GROUND FAULT			X	X		X		X					5
6 NOTIFICATION APPLIANCE CIRCUIT SHORT			X	X		X		X					6
	A	B	C	D	E	F	G	H	I	J	K	L	

PARTIAL FIRE ALARM CONTROL MATRIX

2 / FA100

SCALE: NO SCALE

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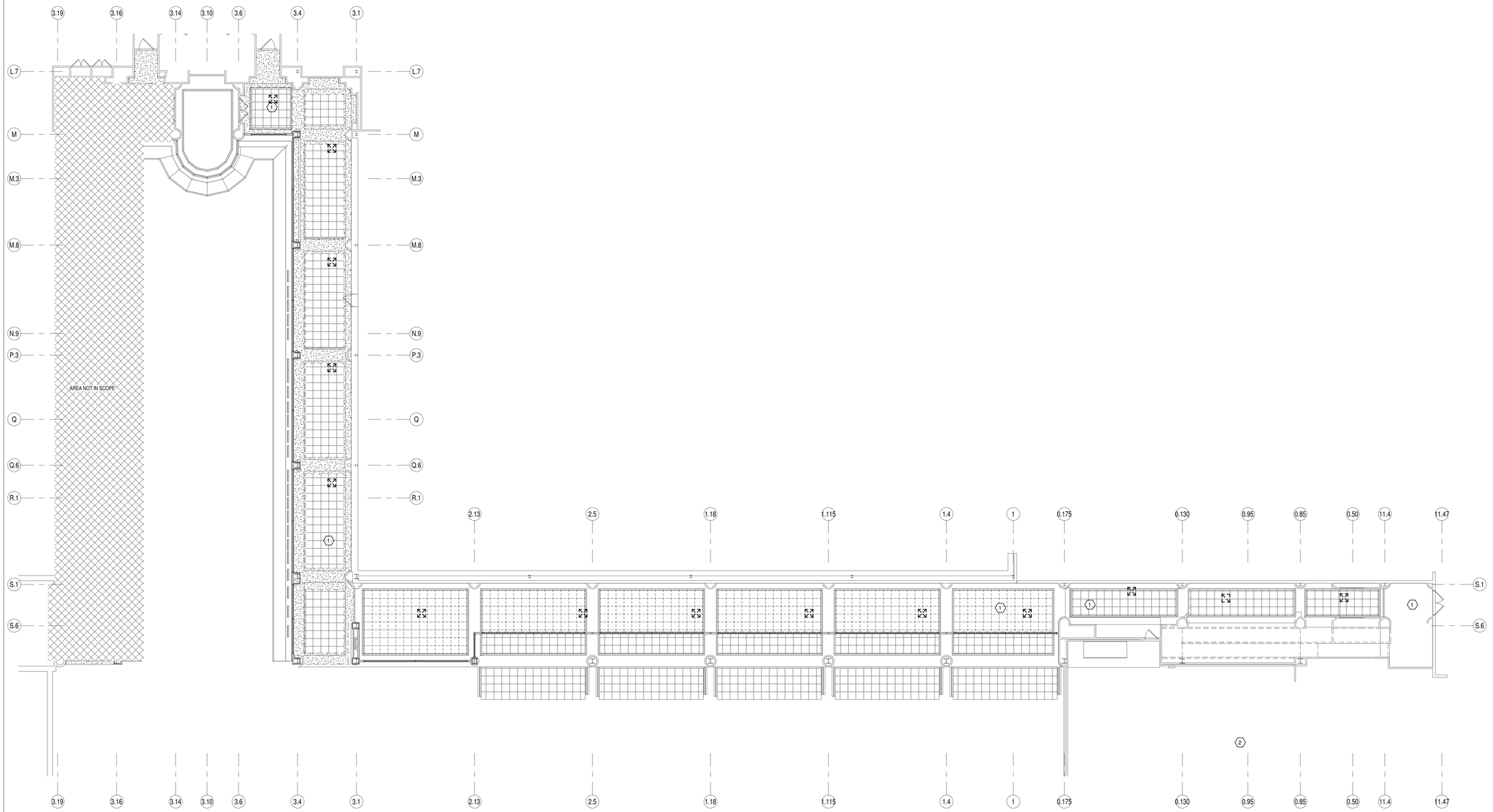
LEGEND, ABBREVIATIONS, & NOTES

SCALE:	As indicated
DRAWN BY:	W. O'CONNOR
CHECK BY:	X. CAO
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

FA100



GENERAL NOTES:

1. REFER TO FA100 FOR LEGEND, ABBREVIATIONS & NOTES.
2. COORDINATE DEMOLITION WITH OTHER CONTRACTORS.
3. ALL CONDUITS AND WIRES REMOVED SHALL BE TAKEN BACK TO THE FACP UNLESS OTHERWISE NOTED.
4. FIRE ALARM SYSTEM IS TO BE FULLY FUNCTIONAL IN REMAINING SECTIONS OF THE BUILDING. CONTRACTOR TO PROVIDE NECESSARY MEANS TO ENSURE FUNCTIONALITY.

KEY NOTES:

(1) ALL FIRE ALARM PULL STATIONS AND NOTIFICATION DEVICES IN THIS SPACE SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED.

(2) ALL FIRE ALARM DEVICES IN THIS SPACE SHALL BE REMAIN UNLESS OTHERWISE NOTED.

1 FAD111 DEMOLITION PLAN
SCALE: 3/32" = 1'-0"

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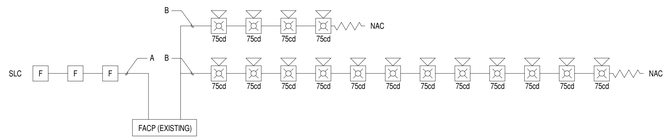
DEMOLITION PLAN

SCALE:	3/32" = 1'-0"
DRAWN BY:	W. O'CONNOR
CHECK BY:	X. CAO
DATE:	05/16/2019
PROJECT NUMBER:	15012-0037

FAD111

GENERAL NOTES:

1. REFER TO FA100 FOR LEGEND, ABBREVIATIONS & NOTES.
2. FIRE ALARM SYSTEM IS TO BE FULLY FUNCTIONAL IN REMAINING SECTIONS.



2 FA111 — PARTIAL FIRE ALARM RISER

SCALE: NO SCALE

1 FA111 — FIRE ALARM PLAN

SCALE: 3/32" = 1'-0"

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FIRE ALARM PLAN

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DATE:	05/16/2019
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FA111